		TOOTO Joseph
VATCOURT O TIT 11 ITTOOK III .	your final answers in the	
Entrance Quiz	The second secon	Score $5/10$
No calculators	provided on this page.	en de la menor de presentada de la composição de la <u>la composição de la composição de la composição de la comp</u> La composição de la compo
Scoring: A question is eigher completely correll from score under 4 on this test, you should of the first from	consider dropping the class. roll in CLAS?	ats).
$\chi$ . Solve for $x$ in the equation	2. Multiply out and	simplify. Check your answer. $(1+x)(1-2x+x^2) 1-2\times + \times^2 $
$3(x+4) = k(x-2).   x=y-4 $ $x+12 = k \times -2k$ $x= k \times -2k$	789	-X - X <sup>2</sup> 1 X <sup>3</sup>
3. Put over a common denominator and simplify. $ \begin{array}{cccccccccccccccccccccccccccccccccc$	What is 25% of 4	2/3 of 12?
5. Calculate $ \frac{20}{1} = \frac{9}{12} \cdot \frac{3}{12} \qquad \frac{20}{(16 - (\frac{1}{3} - \frac{1}{4})^{-1})^2} = \frac{20}{16} $ $ \frac{1}{12} = 12 $	6. A car travels at grest of the journer How many hours somph = 3	50 mph for 3 hours and at 60 mph for the by. The length of the journey is 270 miles. It did the entire journey take?  5 hours
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $5 \times -5 = 16$ $3 \cdot (6) - 5 = 2$	She sold half th sold another ton	bought 7 tons of apples for \$100 per ton. e apples at a price of \$200 per ton. She for \$150. The remainder she sold at \$100 uch profit did she make?  \$ 400
9. What is the area of the shaded region?	1,6. If I earn \$200,0 of what I earn	00 and pay \$80,000 in tax, what percentage do I keep?
3 meters squa	are meters   \$200,000	%

- 4 meters

iydney	BIVINS	4

rey Bivins !	
Entrance Quiz No calculators	As?
Solve for $x$ in the equation $\frac{3x}{3} = x$ $3 \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{$	<ol> <li>Multiply out and simplify. Check your answer.</li> <li>1-2x+x² + x - 2x² + x² (1+x)(1-2x+x²)</li> <li>1-x-x² + x³</li> <li>What is 25% of 4/3 of 12?</li> </ol>
5. Calculate $ (16 - (\frac{1}{3} - \frac{1}{4})^{-1})^{2} = \frac{20}{(16 - (\frac{1}{3} - \frac{1}{4})^{-1})^{2}} $ $ \frac{4}{12} - \frac{3}{12} = \frac{1}{12} $ $ \frac{16 - 12}{12} = \frac{20}{16} $ $ \frac{20}{189} = \frac{5}{4} $ $ \frac{4^{2} = 16^{-10}}{16^{-10}} = \frac{20}{16} = \frac{10}{16} $	A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  270  120  5 2 hours
7. Solve for $x$ and $y$	8. An entrepreneur bought 7 tons of apples for \$100 per ton.



×

$$3x - 5y = -2$$

$$x + y = 10$$

$$3x - 5(10-x) = -2$$

$$3 \times -5(10-X) = -2$$
  
 $3 \times -50 + 6 \times = -2$   
 $8 \times -60 = -2$   
 $+50 + 60$ 

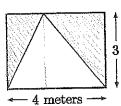
$$y = \angle$$

She sold half the apples at a price of \$200 per ton. She

sold another ton for \$150. The remainder she sold at \$100  $\,$ per ton. How much profit did she make?

\$ 400

## What is the area of the shaded region?



3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

$$\frac{80,000}{200,000} = \frac{8}{200} = \frac{4}{100}$$

	Ray Hernandez
Math 34A Winter 2021 Put your final Entrance Quiz	answers in the Score 6/10
No calculators provided or	a this page.
Scoring: A question is eigher completely correct (1 point If you score under 4 on this test, you should consider during the first of the score 4–7, seek help NOW: maybe enroll in CLA If you score 8–10, congratulations! You are ready for Marketing the score s	at) or wrong (0 points). ropping the class.
Solve for $x$ in the equation $3(x+4) = \frac{3(x+4)}{(x-2)}(x-2)$ 2x - (e)(x-2) 3(x+4) = k(x-2). 3(x+4) = k(x-2). 3(x+4) = k(x-2). 3(x+4) = k(x-2).	Multiply out and simplify. Check your answer. $ \begin{array}{c} (1+x)(1-2x+x^2) \\ (1-2)(1-2x+x^2) \\ (-2)(1-2x+x^2) \\ (-2x+x^2) \\ (-2x+x^$
3. Put over a common denominator and simplify. $ \frac{2x+3}{3} \frac{3x+2}{5} \frac{ 0x+15 }{ 5 } \frac{9x+6}{ 5 } \times \frac{49}{15} $	4. What is 25% of 4/3 of 12? $\frac{4}{3}$ , $\frac{12}{7} = \frac{48}{3} = 10$ $\frac{1}{4}$ , $\frac{16}{7} = \frac{16}{4} = 4$
Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^{2}} \times \frac{17}{119}$ $\frac{20}{17^{2}} \times \frac{20}{299} \times \frac{20}{289}$	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  270 120 2 130 hours
7. Solve for $x$ and $y$	An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  3.5  7  4.5  100  100  \$ 4,550  \$ 500  1050
9. What is the area of the shaded region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage \( \lambda \)\ of what I earn do I keep?
3 meters $\bigcirc$ square meters $\bigcirc$ $A - 2bh$ $A - 2bh$ $A - 2bh$ $A - 2bh$	200,000 120,000 120,000 = 6

Math	34A	Winter	2021
Entra	nce (	Quiz	

Alvaro Marquez Put your final answers in the

10

Score

No calculators

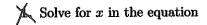
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If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.



 $3(x+4)=k(x-2). \quad x=\frac{1}{2}$ 

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

(x2-x2-x+1)

%. Put over a common denominator and sim-

4. What is 25% of 4/3 of 12?

12 x1,333



Calculate

 $\frac{16-\left(\frac{1}{3}-\frac{1}{4}\right)^{-1}}{\left(16-\left(\frac{1}{3}-\frac{1}{4}\right)^{-1}\right)^2}$ 

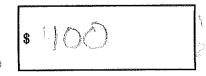
6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

50(3) 160(1) 7/10

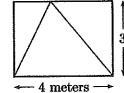
7. Solve for x and y

$$3x-5y=-2$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



What is the area of the shaded region?



3 meters

square meters

**Yo.** If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

120 ab

700,000

%

100,000 1005 CH Syd Deco

Put your final answers in the Math 34A Winter 2021 Entrance Quiz Score Ne calculators provided on this page. Scoring: A question is eigher completely correct (1 point) or wrong (0 points). If you score under 4 on this test, you should consider dropping the class. If you score 4-7, seek help NOW: maybe enroll in CLAS? If you score 8-10, congratulations! You are ready for Math 34A. 2. Multiply out and simplify. Check your answer. 1. Solve for x in the equation 3(x+4) = k(x-2).x3-x2-x+ 3. Put over a common 4. What is 25% of 4/3 of 12? denominator and sim-41 plify, 10×+6\_9×±6 6. A car travels at 50 mph for 3 hours and at 60 mph for the 5. Calculate rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take? 3×50 = 150 hours 10: 270-150=120 342=6 8. An entrepreneur bought 7 tons of apples for \$100 per ton. 7. Solve for x and yShe sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make? x + y = 10y = 43年 x 200 = 600 +14150 22 X100 = 250 +150= 900 1650 = 1050 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage <sup>1</sup>9. What is the area of the shaded region? of what I earn do I keep? square meters 3 meters

4 meters

3×4=12-7

6-44

Of

Put your final answers in the

Score 7/10

No calculators

provided on this page.

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If you score under 4 on this test, you should consider dropping the class.

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If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

3(x+4) = k(x-2).  $3 \times + 12 = k \times - 2 \times$   $12 \times 2 \times = (3-k) \times$ 

2. Multiply out and simplify. Check your answer.  $(1+x)(1-2x+x^2)$ 

-3 + ×3

3. Put over a common

denominator and simplify.  $\frac{60x + 15}{15} = \frac{9x + 6}{15}$  plify.  $2x + 3 \quad 3x + 2$ 

x + 9

4. What is 25% of 4/3 of 12?  $(2 \cdot 4/3 = 4/3 = 10)$ 

4

16.0.25=

3 5

5. Calculate

 $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2} \left(\left(\frac{1}{12}\right)^{-1} = 12\right)$ 

20 = (5)

= 1.25 42=16

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

270= 150 + 60 x - 150 120= 60 x - 150 120 x=2

5 · hours

2+3=5 hours

7. Solve for x and y  $3 \cdot 6 = 8 \cdot 5 \cdot 4 = 20$  3x - 5y = -2 x + y = 10

x = 10 - 4- 54 = -2

3(10-y) - 5y = -2 30 - 3y - 5y = -2 30 - 8y = -2 30 - 8y = -2 3x - 5(4) = -2 3x - 20 = -2 3x = 183x = 18

- 8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

\$ 400

9. What is the area of the shaded region?

3
4 meters

3 meters

( square meters

4.3=12 meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

200000 80,500 120,000

(nÓ %

120003 ×100= (10°1.

		TONG (Mosamud) HOSSair
Math 34A Winter 2021 Put y Entrance Quiz	your final answers in the	Score 5 /10
Ne calculators	rovided on this page.	and the second of the second o
Scoring: A question is eigher completely correctly score under 4 on this test, you should completely score 4–7, seek help NOW: maybe enrolled by the score 8–10, congratulations! You are restricted.	ct (1 point) or wrong (0 points). onsider dropping the class. oll in CLAS?	
1. Solve for $x$ in the equation $\frac{3 \times 112}{2 \times 2} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac$	2x-12 (1+	$-x)(1-2x+x^2) \times -2\times^2 + \times^3$
3. Put over a common denominator and simplify. $\frac{10 \times +15 - 9 \times +6}{15}$ plify. $\frac{2x+3}{3} \frac{3x+2}{5}$	4. What is 25% of 4/3 of 4/3 of 12 - 12 - 12 - 13 - 13 - 13 - 13 - 13 -	612? (4) 915 0.00 444?
5. Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^{2}}$ $\frac{16 - 12 \cdot 4^{2} = 16}{5}$	rest of the journey. The How many hours did	ph for 3 hours and at 60 mph for the he length of the journey is 270 miles. the entire journey take?  2 hours
7. Solve for $x$ and $y$ $3 \times -5(y) = -2$ $3x - 5y = -2$ $3x - 5y = -2$ $3 \times -20 = x + y = 10$ $3 \times -18 = -10 = -2$ $3(10 - y) - 5 = -2$ $30 - 3y + 5 = -2 = -30$ $-8y = -32 = -32$	She sold half the appropriate sold another ton for	.5
9. What is the area of the shaded region?	10. If I earn \$200,000 are meters 200,000 for the second of the second o	40 %
2.12=6		

Put your final answers in the

Score 7 / 10

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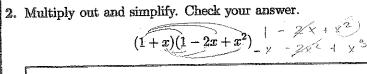
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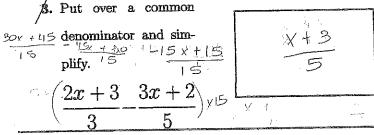
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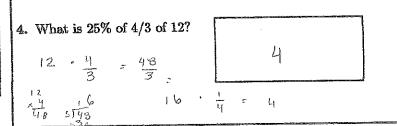
If you score 8-10, congratulations! You are ready for Math 34A.

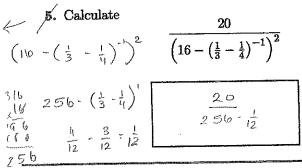
3x-1cx = -14	- 2 K 3 · K
3(x+4) = k(x-2).	x =  2 + 4
3x+12 = KX - K2	

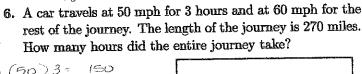


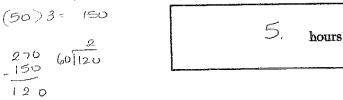
$$x^3 - x^2 - x^2 + 1$$











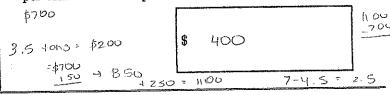
7. Solve for 
$$x$$
 and  $y$ 

$$3x - 5y = -2$$

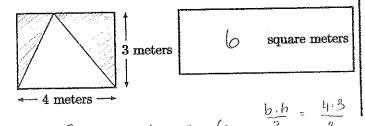
$$5 (5x + y = 10)$$

$$y = \iota_{\parallel}$$

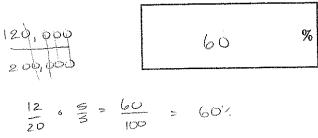
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



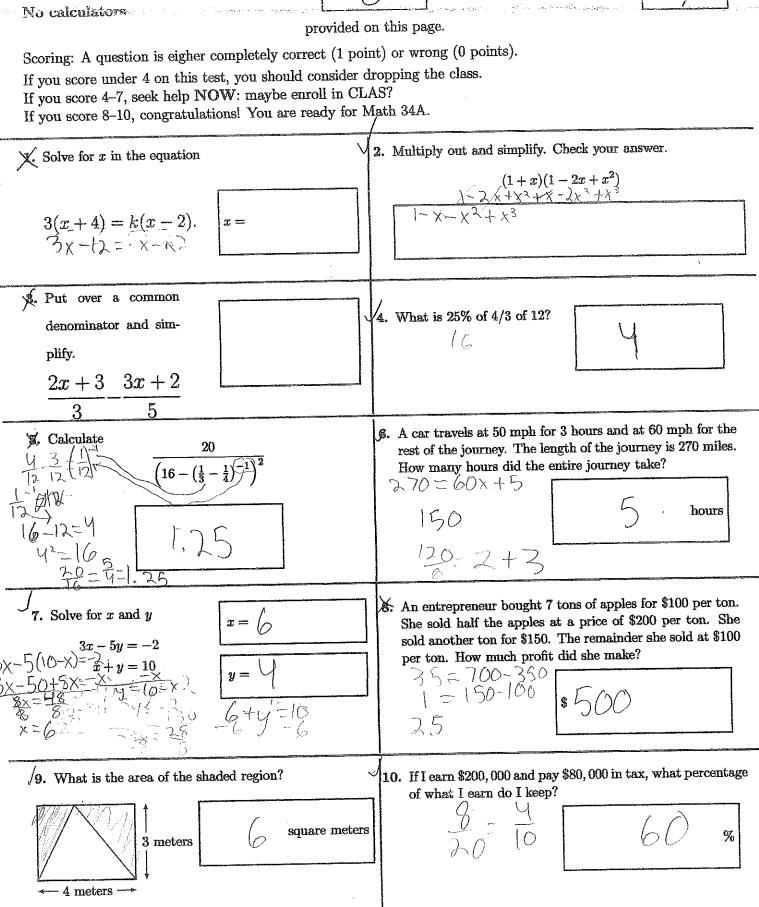
### 9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



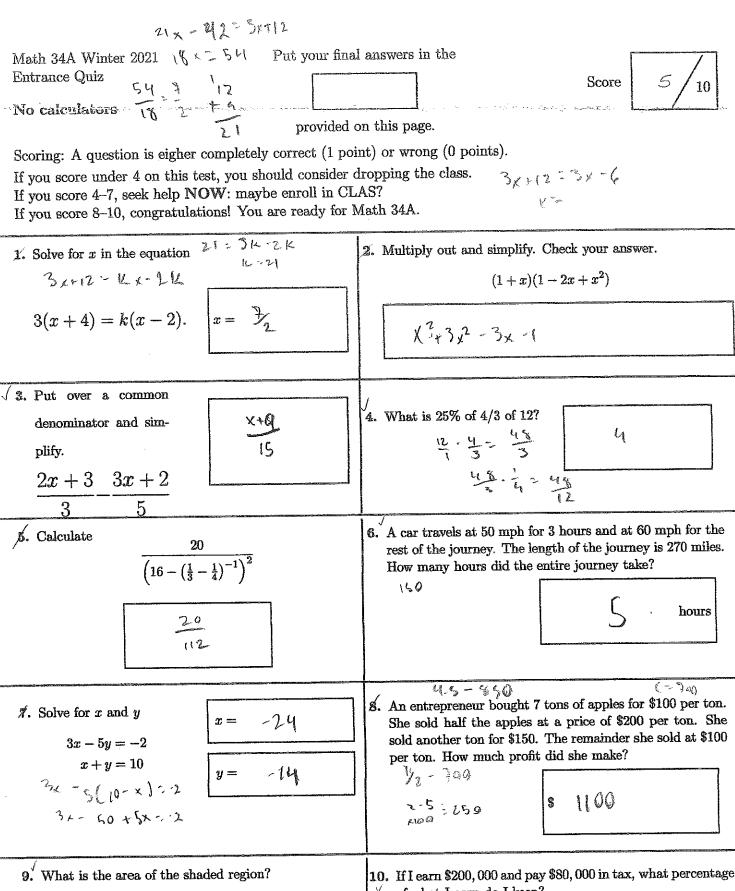
	Colin Gallivan
Put your final	Score 10
provided or	•
-	
12	2. Multiply out and simplify. Check your answer.
	$(1+x)(1-2x+x^2)$ $(1+x)(1-2x+x^2)$ $(1+x)(1-2x+x^2)$ $(1+x)(1-2x+x^2)$ $(1+x)(1-2x+x^2)$ $(1+x)(1-2x+x^2)$
	4. What is 25% of 4/3 of 12?
	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  20 = 60 × +5    50
-10 -6	An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  35 = 700 - 350  1 = 150 - 100  \$500
~	400,000; 4, , , , , , , , , , , , , , , , , , ,



Math 34A Winter 2021

Entrance Quiz

Entrance Quiz  No calculators	provided on this page	ila is jo slicenskih od optobersom <b>e.</b>	Score 7/10
Scoring: A question is eigher completely configuration of the state of	d consider dropping the enroll in CLAS?	· · · · · · · · · · · · · · · · · · ·	-1X   X
1. Solve for $x$ in the equation $3(x+4) = k(x-2).$ $3x + 12 + kx - k2$ $3x - kx = -12 + 4x - k2$		y out and simplify. Chec $(1+x)(1-2x)$	$(x+x^2)$
3. Put over a common denominator and simplify. $\frac{10 \times 15}{2x + 3} = \frac{3x + 2}{5}$	4. What i	is 25% of 4/3 of 12?	
5. Calculate	rest of	travels at 50 mph for 3 he the journey. The length nany hours did the entire	ours and at 60 mph for the of the journey is 270 miles. e journey take?  5 hours
3. V. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $3(10 - 9) - 59 = -2$ $3(10 - 9) - 59 = -2$ $30 - 39 = -59 = -2$ $30 - 39 = -3.5$	She so sold a per to 700 + 15	trepreneur bought 7 tons old half the apples at a mother ton for \$150. The on. How much profit did	(3.5.200) + 150 + (2.5.1) s of apples for \$100 per ton. price of \$200 per ton. She remainder she sold at \$100 she make?
9. What is the area of the shaded region?	10. If Ie of w	arn \$200,000 and pay \$80 hat I earn do I keep?	0,000 in tax, what percentage

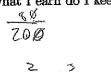




4 meters

3 meters

6 square meters 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



CO

			Par	ker Sharpe	
Math 34A Winter 2021 Entrance Quiz	Put your final an	swers in the	Score	\$ 10	
No esiculators	provided on t	his page.	e god se zavěkažna vnace v stoje v 📞		jet
Scoring: A question is eigher completel If you score under 4 on this test, you sl If you score 4–7, seek help NOW: may If you score 8–10, congratulations! You	nould consider drop be enroll in CLAS	oping the class. ?			
1. Solve for $x$ in the equation $ 3x+17=Kx-K2 $ $ -x - 12-Kx-12 $ $ 3x-12-Kx-12 $ $ 3(x+4)=k(x-2). $ $ 3x+12-Kx-12 $ $ 3x+12-Kx-12 $ $ 3x-12-Kx-12 $ $ 3x-12-Kx-12 $ $ 3x-12-Kx-12 $	11 x(x-z) 2 - xx-x2 2 - 17 3 - x 10 2 - 12 2 - 12 - 3 2 - 12 - 3	Multiply out and simplifing $(1+x)$	$(1-2x+x^2)$	ver.  -	-2x 7y
3. Put over a common $x + 9$ $5 - \frac{9x + 6}{\text{denominator}}$ and sim- $\sqrt{5}$ plify.  5. $\frac{2x + 3}{3} - \frac{3x + 2}{5}$ .	(+9 15	What is. 25% of 4/3 of 1	.2?		
5. Calculate ( $\frac{20}{(16 - (\frac{1}{3})^{-1})^2}$ $\frac{(16 - (\frac{1}{3} - \frac{1}{4})^{-1})^2}{(16 - (\frac{1}{3} - \frac{1}{4})^{-1})^2}$	3.4 12 12	A car travels at 50 mph rest of the journey. The How many hours did the	elength of the journ	ey is 270 miles.	
+ (+ Z   1 Z	78 1 79 2	150 270 -150 170			
7. Solve for $x$ and $y$ $3x - 5y = -2$ $3x - 5y = -2$ $3 - 5 - 3 - 5$ $3x - 5y = -7$	WAX 4	She sold half the apple sold another ton for \$11 per ton. How much programmed in \$1.50 \$1.	es at a price of \$20 50. The remainder ofit did she make?	0 per ton. She	3
9. What is the area of the shaded region	on?	.0. If I earn \$200,000 and of what I earn do I ke	pay \$80, 000 in tax eep?	, what percentag	ze 1
	square meters			%	

%

3 meters

- 4 meters --->

Math 34A Winter	2021
Entrance Quiz	



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Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

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If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

3(x+4) = k(x-2). x =3x+12= Kx-2K

2. Multiply out and simplify. Check your answer.

 $(1+x)(1-2x+x^2)$ 

3. Put over a common denominator and sim-

 $\frac{2x+3}{3}$   $\frac{3x+2}{5}$ 

4. What is 25% of 4/3 of 12?

4

5. Calculate

plify.

 $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. √ How many hours did the entire journey take?

hours

7. Solve for x and y

3x - 5y = -2

x + y = 10

x =

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

\$ 450

9. What is the area of the shaded region?

3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage

of what I earn do I keep?

%

4 meters

EridhC	6
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Math	34A	Winter	2021
Entra	nce (	Quiz	

Score	3/10
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No calculators

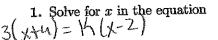
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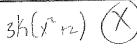
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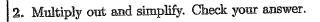
If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.



3x+12 = , Kx = 3(x+4) = k(x-2). x = 2





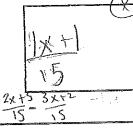


$$(\cancel{1}+\cancel{x})(\cancel{1}-2x+x^2)$$

1/1/1

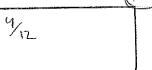
denominator and sim-

3. Put over a common



4. What is 25% of 4/3 of 12?

4-3-12=



5. Calculate

 $\frac{5}{(16 - (\frac{1}{3} - \frac{1}{4})^{+1})^2}$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



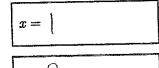
On 2 +120

hours

7. Solve for x and y



x + y = 10



8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



380



200 700\$

3.5

**s** 350

9. What is the area of the shaded region?



3 meters



square meters

100%

4015 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

100,000



%

4 meters -

rd E

Math	34A	Winter	2021
Entra	nce (	Quiz	

Unristanted Bolins Put your final answers in the

Score	8	/10
Score	O	/ 10

No calculators

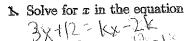
provided on this page.

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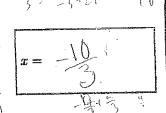
If you score 8-10, congratulations! You are ready for Math 34A. (6 )

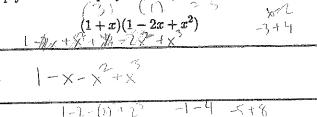


$$3x+12 - kx-2k$$

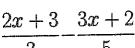
$$3x+kx = -12-2k$$

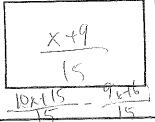
$$3(x+4) = k(x-2)$$



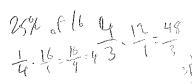


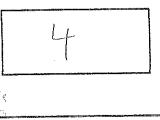
3. Put over a common denominator and simplify.



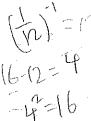


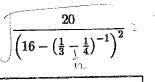
4. What is 25% of 4/3 of 12?

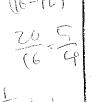




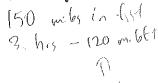
5. Calculate

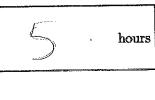






6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?





7. Solve for x and y

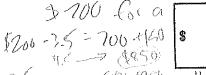
$$3x - 5y = -2$$

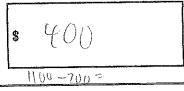
$$3x + 3y = 30$$

$$-6y = -3$$

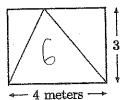
$$y =$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

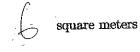




9. What is the area of the shaded region?

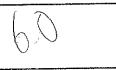


3 meters



与品

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



Put your final answers in the

Score 0/10

No calculators.

provided on this page.

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

(1.) Solve for x in the equation

3(x+4) = k(x-2).

2K112 = 3x1 Kx

$$x = \frac{2 + 1}{6}$$

2. Multiply out and simplify. Check your answer.

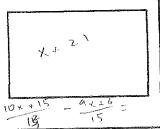
$$(1+x)(1-2x+x^2)$$

1- x-x<sup>2</sup> 4 x<sup>3</sup>

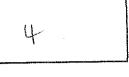
3. Put over a common

denominator and simplify.

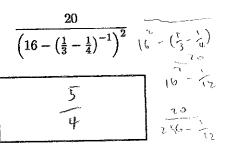
$$\frac{2x+3}{3} \quad \frac{3x+2}{5}$$



4. What is 25% of 4/3 of 12?



5.) Calculate



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

5 · hours

7. Solve for x and y

$$3x - 5y = -2$$

$$x + y = 10^{-4}$$

$$x + y = 10^{-4}$$

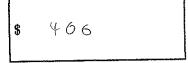
$$x = C$$

$$y = 4$$

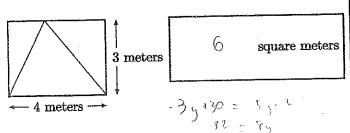
$$\frac{2-3x}{5} = 10-x$$

$$\frac{2-3y}{5} = 15-x$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



9. What is the area of the shaded region?



10.) If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

3 meters

– 4 meters -

Square meters

Maxlerin		
Math 34A Winter 2021 Entrance Quiz	-	answers in the Score 5/10
- No calculators	provided o	on this page.
Scoring: A question is eigher computed in the score under 4 on this test, year of the score 4–7, seek help NOW:  If you score 8–10, congratulations	you should consider of maybe enroll in CL	tropping the class. AS?
Solve for $x$ in the equation $3(x+4) = k(x-2).$ $x = 3$		$(1+x)(1-2x+x^2)$
3. Put over a common denominator and simplify. $\frac{2x+3}{3} \frac{3x+2}{5}$	1×+4 15	4. What is 25% of 4/3 of 12?
5. Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)\right)}$	-1) <sup>2</sup>	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$		8. An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?
9. What is the area of the shaded	region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

# Samantha Stavens

Math 34A Winter 2021 Entrance Quiz

Put your final answers in the

Score

No calculators

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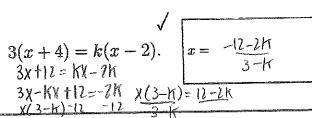
Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

#### 1. Solve for x in the equation



Multiply out and simplify. Check your answer. 

y3+x2+X-1

3. Put over a common

denominator and sim-

X plify.

 $5\left(\frac{2x+3}{3}\right)\frac{3x+2}{5}$ 

 $\chi + 9$ 

(ta)

4. What is 25% of 4/3 of 12?

 $16(\frac{1}{4}) = 4 \frac{1}{3} \cdot \frac{12}{1} = 16$ 

%

60

5. Calculate	20	20
(=====================================	$ \frac{1}{12} \frac{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}{3 - 4 = -1} $	(16-13-4))2
$\left(\frac{1}{12}\right)^{-1} = 12$ $16 - 12 = 4 (4)^{2} = 12$	20 = 5 16 = 4	$ \begin{array}{c c} \hline (16+1)^2 \\ ? \end{array} $

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

150 miles -> 3 hrs hours

7. Solve for x and y

$$J 3x - 5y = -2$$
$$x + y = 10$$
$$X = -y + 10$$

16

3(-V+10)-5V=-2 X+V=10 X+9=10 -3y + 30 - 5y = -2V= 6

1 ton=\$100 .... 7 mrs = \$700

25 ton1 = \$100

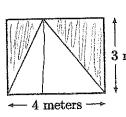
Spent \$710 total

An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100

per ton. How much profit did she make?

1050 700 350 350 3,5 ton 1 x 206 = \$760

9. What is the area of the shaded region?



A=1.W 4.3

3 meters

square meters

 $A = \frac{1}{2}bh$  $A = \frac{1}{2}(4)(3) = 6$ 

士(12)

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

20000

H = 4 = 2

 $\frac{1}{4 \div 100} = \frac{1}{9} \cdot \frac{100}{1} = \frac{2}{5} \cdot \frac{10000}{1} = 40\%$ 

Put your final answers in the

Score

No calculators

provided on this page.

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If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

2. Multiply out and simplify. Check your answer. 

$$3(x+4) = k(x-2).$$

$$3x+12 = kx - 2k$$

$$3x+12 = k(x-2).$$

$$x = \frac{-2(k+b)}{(3-k)}$$

3. Put over a common

denominator and simplify.

plify. 
$$2x+3 \quad 3x+2$$

5. Calculate  $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$ 



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

7. Solve for x and y

$$3x - 5y = -2$$

$$x + y = 10$$

$$x = \sqrt{g}$$

$$y = 4$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

400

9. What is the area of the shaded region?

3 meters

0 square meters 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

> 60 %

4 meters

D=== (4.3)=6 D=12

aly Brown lee	
Math 34A Winter 2021 Put your final Entrance Quiz	Score 10
No calculators provided or	1 this page. $\times^3 \times \times \times^3 + 1$
Scoring: A question is eigher completely correct (1 point If you score under 4 on this test, you should consider draw If you score 4-7, seek help NOW: maybe enroll in CLA If you score 8-10, congratulations! You are ready for M	t) or wrong (0 points). opping the class. S?
2. Solve for x in the equation	2. Multiply out and simplify. Check your answer.
3x + 1) = kx - 2x	$(1+x)(1-2x+x^2)$
$3(x+4) = k(x-2).  x = \frac{12}{12}$ $5 \times -12 \times 12 \times 12 \times 12 \times 12 \times 12 \times 12 \times 1$	x3-x2-x+1
x(5-x)=/	
S. Put over a common	4 YET -4 :- 2507 of 4/2 of 197
denominator and sim- $ 0 \times +  5 \text{ plify.} $ $ 5 \times  5 $	4. What is 25% of 4/3 of 12? $ \frac{2}{12} = \frac{4}{3} \times 0.25 $ $ 3 \times = \frac{48}{3} \times 160400 $
5. Calculate $ \frac{20}{16 - (\frac{1}{3} - \frac{1}{4})^{-1}} $ $ \frac{16 - (\frac{1}{3} - \frac{1}{4})^{-1}}{12} $	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles.  How many hours did the entire journey take?  150 mi  hours  120 my  2 my 13 lines 5 3,5 4,5
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $y = 4$	8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?
$3 \times -50 + 5 \times = 4$ $3 \times -50 + 5 \times = 4$	Spent 700 1400 \$ +800 400 +150 1500 \$
9. What is the area of the shaded region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?
3 meters 9.6 square meters	80,000 40 %
-total = 1) in	20/8.0

Math 34A Winter 2021  Put your final Entrance Quiz  No calculators  provided of Scoring: A question is eigher completely correct (1 point If you score under 4 on this test, you should consider during the you score 4–7, seek help NOW: maybe enroll in CLA If you score 8–10, congratulations! You are ready for Mathematical Scoring and Scoring a	Score \( \frac{10}{10} \) In this page. It) or wrong (0 points). Tropping the class. AS?
1. Solve for $x$ in the equation $3 \times 10^{-3} \times 10^{-3}$ $3(x+4) = k(x-2).  x = -8$ $3 \times 10^{-3} \times 10^{-3} \times 10^{-3}$	2. Multiply out and simplify. Check your answer. $1-2\times + \times^{2} + \times -2\times^{2} + \times^{2}$ $(1+x)(1-2x+x^{2})$
3. Put over a common denominator and simplify. $10 \times +15 = (7 \times +9)$ $5 = (2x+3) = (3x+2)^2$ $5 = (3)$	4. What is 25% of 4/3 of 12?
5. Calculate $ \frac{1}{3} - \frac{4}{4} + \frac{3}{12} - \frac{20}{12} $ $ \frac{1}{3} - \frac{4}{12} - \frac{3}{12} - \frac{1}{12} \cdot \left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^{2} $ $ \frac{1}{3} - \frac{1}{4} - \frac{1}{12} - \frac{1}{12} - \frac{1}{2} $ $ \frac{1}{3} - \frac{1}{4} - \frac{3}{12} - \frac{1}{12} $ $ \frac{1}{4} - \frac{1}{3} - \frac{1}{4} - \frac{1}{3} $ $ \frac{1}{4} - \frac{1}{3} - \frac{1}{3} - \frac{1}{3} $ $ \frac{1}{4} - \frac{1}{3} - \frac{1}{3} - \frac{1}{3} $ $ \frac{1}{4} - \frac{1}{3} - \frac{1}{3} - \frac{1}{3$	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  270 60120 hours
7. Solve for $x$ and $y$ $3(10-y) - 5y = -2$ $3x - 5y = -2$ $3x - 5y = 10$ $4 = 4$ $5 = 4$ $5 = 4$ $5 = 4$	An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  3.5 200 = 700  1.150 = 150  \$650
9. What is the area of the shaded region?  3 meters square meters	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

Math	34A	Winter	2021
Entra	nce (	$\operatorname{Quiz}$	

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Score	10
, estelli, i est	MATL REA

No calculators

provided on this page.

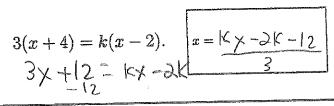
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If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.





2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^{2})$$

$$\times -2 \times 2 + \times 2$$

$$-2 \times 2 + \times$$

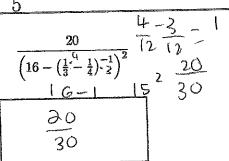
Put over a common denominator and sim-

plify.  $2x + 3 \quad 3x + 2 \cdot 5$ 

4. What is 25% of 4/3 of 12?

l hours	and	at (	60 ·	mph	for	the

5, Calculate



1-9x+1

6 A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

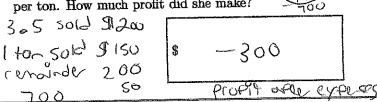
7. Solve for x and y

$$3x - 5y = -2 - 5y$$
$$x + y = 10 \quad 3$$

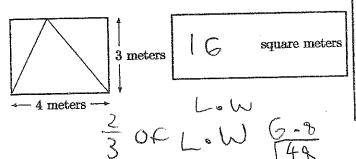
x =

*y* =

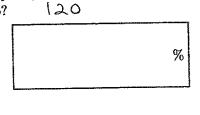
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



	JO Had dad
Math 34A Winter 2021 Put your final Entrance Quiz	
No calculators provided or	n this page.
Scoring: A question is eigher completely correct (1 point of you score under 4 on this test, you should consider during the you score 4–7, seek help NOW: maybe enroll in CLA of you score 8–10, congratulations! You are ready for M	t) or wrong (0 points). copping the class. S?
Solve for $x$ in the equation $3 \times + 12 = k \times -2k \times -2k \times -3 \times -2 \times +12 = -2k \times -2 \times -3 \times -2 \times -2 \times -2 \times -2 \times -2 \times -2$	Multiply out and simplify. Check your answer. $(1+x)(1-2x+x^2) -2x + x^2 + x^2$
$X(3-K) + XZ = \frac{-2K - 12}{3-K-\frac{12}{3}}$	$X^3-X^2-X-1$
3. Put over a common denominator and simplify. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4. What is 25% of 4/3 of 12?  4. What is 25% of 4/3 of 12?  4  4  4  4  4  4  4  4  4  4  4  4  4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  50 · 3 = 150  270   290 = 2
7. Solve for $x$ and $y = 3$ $x = 6$ $3(10-y)-5y=-2 = 28$ $30-3y-5y=3x-5y=-28$ $3x-5y=-29$ $3x-5y=-29$ $3x-5y=-29$ $3x-5y=-29$ $3x-5y=-29$ $3x-5y=-29$ $3x-5y=-29$ $3x-5y=-29$ $3x-5y=-29$ $3x-6y=-29$	8. An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  1700 1034557  1700 2.5 2.5 \$400 3.5  1000  7500  7500  7500
9. What is the area of the shaded region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?
3 meters square meters	$\frac{80}{200} = \frac{40}{100} = \frac{60}{40\%}$
655 m	

Math 34A V	Vinter 2021
Entrance Q	niz

Score

10

Wo calculators

provided on this page.

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

The Albornoz

If you score under 4 on this test, you should consider dropping the class.

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If you score 8-10, congratulations! You are ready for Math 34A.

# 1. Solve for x in the equation

$$.3x+12 = k^{x}-2k$$

$$3y - kx = -2k - 12$$
  
 $3(x+4) = k(x-2).$   $x = \frac{-2k-12}{3-k}$ 

$$X(3-K) = (-2K-12)$$

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

$$(-2 \times (+ \times^{2} + \times) - 2 \times^{2} + \times^{3})$$
  
 $(- \times^{-} \times^{2} + \times^{3})$ 

$$\frac{5}{5}\left(\frac{2x+3}{3}\right)\left(\frac{3x+2}{5}\right)^{\frac{3}{5}}$$

$$\frac{(10x+15)-(9x+6)}{15}$$

$$\Rightarrow \frac{x+9}{15}$$

4. What is 25% of 4/3 of 12?

4

$$\frac{4}{12} - \frac{3}{12} = \left(\frac{1}{12}\right)^{-1} = 12$$

$$\frac{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2} = \left(16 - 12\right)^2$$

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

$$\frac{270}{150}$$
 3 hvs  $\frac{150}{120}$   $\frac{2}{1}$   $\frac{1}{2}$   $\frac{1}{2}$ 

hours

(700)

900

### 7. Solve for x and y

$$3x - 5y = -2$$

$$x + y = 10 \rightarrow x^{-10-\gamma} \quad y = 4$$

$$3(10-4)-5y=-2$$
  
 $30-3y-5y=-2$   
 $-8y=-32$ 

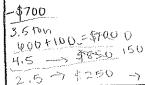
y=4

$$x = b$$

$$y = L$$

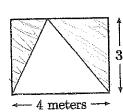
18-20 = - 2

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She 700' sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



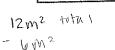
\$ 400

### 9. What is the area of the shaded region?



3 meters

square meters



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

100



Math	34A	Winter	2021
Entra	nce (	Quiz	

2/Multiply out and simplify. Check your answer.

Score

√'	/ 10

No calculators Ela Shulz

provided on this page.

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If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

### Solve for x in the equation X(3-K)=-216-12

$$x = -2k - 12$$

$$3(x+4) = k(x-2).$$

$$3(x+4) = k(x-2).$$

$$3(x+4) = k(x-2)$$

$$\frac{2k-12}{3-k}$$

$$\left(\chi^{3}-\chi^{2}-\chi+1\right)$$

Vá. Put over a common

denominator and sim-

plify.

$$2x + 3(5) 3x + 2(3)$$

4. What is 25% of 4/3 of 12?

5. Calculate

$$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$$

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

Solve for x and y

$$3x - 5y = -2$$

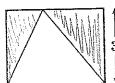
$$x + y = 10$$

$$y = -\frac{z}{7}$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

2.5. 100 = 250

9/ What is the area of the shaded region?



4 meters

3 meters

square meters

3.4=12 -6

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

Jessica	Taghizadeh
Put v	our final answers in the

Score	
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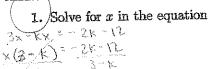
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$$3(x+4) = k(x-2).$$

$$3x + 12 = k(x-2).$$

$$-kx + 12 = k(x-2).$$

$$x = \frac{-2k - 12}{3 - k}.$$

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

$$(1+x)(1-2x+x^2)$$

$$(1+x)(1-2x+x^3)$$

$$(1+x)(1-2x+x^3)$$

3. Put over a common Ox+15 denominator and simplify. 15

$$\frac{-\frac{3x+6}{\text{plify. } 15}}{\left(\frac{5}{3}\right)} \frac{2x+3}{3} \frac{3x+2}{5} \left(\frac{3}{3}\right)$$

4. What is 25% of 4/3 of 12? 44444

4

5. Calculate  $\frac{1}{1(\frac{1}{3})^{\frac{1}{4}}} \frac{1}{1} \frac$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

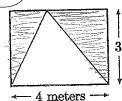
hours

7. Solve for x and y3x - 5y = -2x + y = 10

$$x = \frac{10}{9}$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

What is the area of the shaded region?



3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

%

120 - 60 - 60 - 60 - 0.6

12 for box, maybe 2/3?

Math	34A	Winter	2021
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Marc Nunez

### 1. Solve for x in the equation

$$3(x+4)=k(x-2).$$

Multiply out and simplify. Check your answer.

$$|-2x+x^{2}+x-2x^{2}+x^{3} + x - 2x^{2} + x^{3} + x - 2x^{2} + x^{2} + x^{2}$$

plify.

$$5 \cdot \frac{2x+3}{3} - \frac{3x+2}{5} \cdot 3 = \frac{\cancel{0} \times \cancel{15}}{\cancel{5}}$$

4. What is 25% of 4/3 of 12?

5. Calculate

$$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$$

4-3元七

X

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

7. Solve for x and y

4 meters

$$3x - 5y = -2$$

$$3x - 5y = -2$$

$$6+y = 10$$

$$y = 4$$

$$y = 10$$

$$y = 4$$

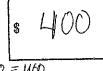
$$y = 10$$

$$3x - 5(10-x) = -2$$

$$3x - 5(10-x) = -2$$

$$3x - 50 + 5x = -2$$

An entrepreneur bought 7-tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



9. What is the area of the shaded region?



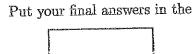
3 meters

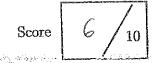
square meters

 $\checkmark$ 

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

Math 34A Winter S Entrance Quiz	2021
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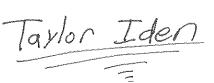
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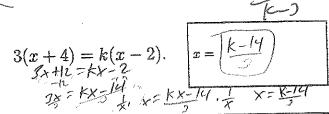
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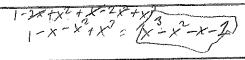


 $\mathcal{X}$ . Solve for x in the equation

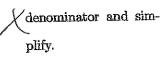


Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

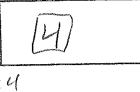


3. Put over a common



$$\frac{2x+3}{3} - \frac{3x+2}{5}$$

4. What is 25% of 4/3 of 12?



5. Calculate



$$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$$

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?





7./Solve for x and y

$$3x - 5y = -2$$

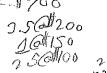
$$x + y = 10$$

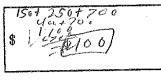
$$x = 10$$

$$x = 6$$

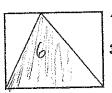
8. [/An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage





/9. What is the area of the shaded region?

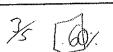


3 meters



square meters

of what I earn do I keep? 120,000



%

ph =

NAME: HARPER	GIORDANO,
Math 34A Winter 2021 Put your fina Entrance Quiz	answers in the Score Q 10
No calculators provided	on this page.
Scoring: A question is eigher completely correct (1 po If you score under 4 on this test, you should consider If you score 4–7, seek help NOW: maybe enroll in CI If you score 8–10, congratulations! You are ready for	dropping the class.  AS?
Solve for $x$ in the equation	2. Multiply out and simplify. Check your answer.
$3(x+4) = k(x-2).$ $x = \frac{12+2k}{k-3}$	$(1+x)(1-2x+x^{2})$ $ +-2x+x^{2}+x-2x^{2}+x^{5} $ $ +-2x+x^{2}+x-2x^{2}+x^{5} $ $ +-2x+x^{2}+x-2x^{2}+x^{5} $
3. Put over a common denominator and simplify. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4. What is $25\%$ of $4/3$ of $12?$ $\frac{4}{3}(\frac{12}{3}) + (6(.25) = 4)$
Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?
125	50x + 60x = 270 50(3) + 60x = 270 60x = 120 x = 2 x = 120 x = 2 x = 120 x = 120 x = 120
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $y = 4$	8. An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  200(3.5) = 700
y=10-X $y=10-X$ $y$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
9. What is the area of the shaded region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?
$ \begin{array}{c c} \hline 3 \text{ meters} \end{array} $ $ 4 \text{ meters} \rightarrow $	\$ \$120,000 60 %
$(4.3) - (\frac{1}{2})(4.3) = 12 - b = 6$	,

Math 3	34A	Winter	2021
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Anyi Zhao

Score

10

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1. Solve for x in the equation

2. Multiply out and simplify. Check your answer.

 $\frac{(1+x)(1-2x+x^2)}{(1+x)(1-2x+x^2)}$   $\frac{6 = (-1)x+x^2+x^2}{(1+x)^3}$ 

3(x+4) = k(x-2).3x+12 = kx - 2k. 3x-kx = -2k-12 x = 3-k x(3-k)=-2k-12

denominator and sim-

2x+3 3x+2

- 1-2k-12) 3. Put over a common

76

4. What is 25% of 4/3 of 12? 1数美X2% = 16x0.25 = 16x = 4

4.

olify.

5. Calculate  $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$ ( + - 1/2 ) -1 = (1)-1 = (1) 16 -

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

TOX3+60 X=270 60 X=270-150  $\sim 100$ 

7. Solve for x and y

x + y = 10

3x - 5y = -2

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

7 x 100= 700 600 3.5x200 + 150+100x(7-358

9. What is the area of the shaded region?

3 meters 4 meters

square meters Ь

-700 850 + 200 - 1422 1100-700 = 400 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

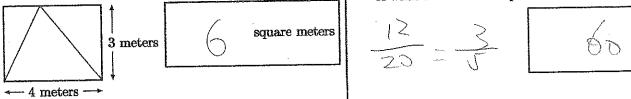
200 000 - 80000 V 20,000) [200000 12 3 20/12

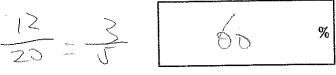
60 %

4x3 = 6 m2

Math 34A Winter 2021	Put your final	answers in the	<u>.</u>	
Entrance Quiz			Score	10
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Scoring: A question is eigher completely If you score under 4 on this test, you sh If you score 4–7, seek help NOW: may If you score 8–10, congratulations! You	y correct (1 poir ould consider d be enroll in CLA	nt) or wrong (0 points). ropping the class. AS?		
1. Solve for x in the equation	Value of the same	2. Multiply out and simplify. C $(\widehat{1+x})(1-x)$	er's entrance of the second	r.
$3(x+4) = k(x-2).  x = -3$ $3 \times + 12 = 12 \times -21$	Normal Daniel Company	$1 - x - x^2 - 1 - 2x + x^2 + x$	t. X	3
3 Put over a common				NAME AND ADDRESS OF THE PARTY O
denominator and sim-		4. What is 25% of 4/3 of 12?	lance	_
plify.		3434747		\ \frac{1}{2}
2x + 3  3x + 2		9 m122 1/2 1/2;	× (25 %	
3 5	anima politica de la companya de la			
Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$	= = 1,2S	50450+30 = 150miles - 150 60 /76 - 150 60 /76 - 150 4 60	th of the journey take	hours
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$		8. An entrepreneur bought 7 to She sold half the apples at sold another ton for \$150. To per ton. How much profit of	a price of \$200 The remainder sh lid she make?	per ton. She
y =		7 tors \$100/ter 7,5 \$200/ter 1 her \$150		>
the response and some control of the	The state of the s	1 V. N		100 +50+50
9. What is the area of the shaded region	1?	10. If I earn \$200,000 and pay of what I earn do I keep?	\$80, 000 in tax, w	hat percentage
3 meters	square meters	, , , , , , , , , , , , , , , , , , ,	60	%
← 4 meters →				

Entrance Quiz  No calculators  provided of Scoring: A question is eigher completely correct (1 point If you score under 4 on this test, you should consider do If you score 4–7, seek help NOW: maybe enroll in CLA	ropping the class. AS?
If you score 8-10, congratulations! You are ready for No. 1. Solve for $x$ in the equation	2. Multiply out and simplify. Check your answer. $(1+x)(1-2x+x^2)$
3. Put over a common denominator and simplify. $ \frac{2x+3}{3} \frac{3x+2}{5} $ 5. Calculate	4. What is 25% of 4/3 of 12?  4. What is 25% of 4/3 of 12?  6. A car travels at 50 mph for 3 hours and at 60 mph for the
$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^{2}}$	rest of the journey. The length of the journey is 270 miles.  How many hours did the entire journey take?  hours
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $3x + 3y = 3$ $x = 4$ $y = 4$	8. An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  700  \$ 400  \$ 2000 It No \$ 400
9. What is the area of the shaded region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?





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Entrance Quiz				Score	8 / 10		
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1. Solve for $x$ in the equation		2.\Multiply out and	simplify. Chec	k your ans	wer.		
ŵ.		$(1+x)(1-2x+x^2)$					
$3(x+4)=k(x-2).  \boxed{x=}$		1-242	y by		Z, %.		
			1- x-	X2 + X3			
3/Put over a common			/n _f 202				
denominator and sim-	× 19	4./ What is 25% of 4	1				
plify.	15	1 7	13 16		Odda Commenced		
$\frac{2x+3}{3} - \frac{3x+2}{5}$	0 - 1 × 1 6		Ĭ,	4			
5. Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)}$	1) <sup>2</sup>	6. A car travels at 5 rest of the journe How many hours	y. The length	of the jour	ey is 270 miles.		
(13 4)		270 - 150 = 1 284	20	Ų	hours		
3x - 5y = -2	= (0	8. An entrepreneur She sold half the sold another ton per ton. How m	e apples at a p for \$150. The	price of \$20 remainder	00 per ton. She		
x+y=10 $y=10-y$	- society	700					
3(10-4) - 54 = -2	- 8y = -32	3,5,900 700 x150 x1	j	400			
9/What is the area of the shaded	•	10. If I earn \$200,0 of what I earn		, 000 in tax	, what percentage		
3 meters	square meters	120 12		(	oo/. %		
← 4 meters →							

Math 34A Winter 2021  Entrance Quiz  Lun Houng  Put your final and the provided or provide	Score 10
Scoring: A question is eigher completely correct (1 point If you score under 4 on this test, you should consider drug If you score 4–7, seek help NOW: maybe enroll in CLA If you score 8–10, congratulations! You are ready for M	opping the class.
X1. Solve for $x$ in the equation $3(x+4) = k(x-2). \qquad x = -\frac{14}{(3- k )}$ $3x - (2 -  k  - 2) \qquad x(3- k ) = -44$	Multiply out and simplify. Check your answer. $ -2 \times 4 \times 2 + \times -2 \times 2 + \times 3 =  - \times - \times - \times   + \times   +$
× 3. Put over a common	4. What is 25% of 4/3 of 12? $\frac{3}{3} = \frac{4 \times 12}{3}$ $\frac{1}{4} \times \frac{12}{3} = \frac{3}{3}$
5. Calculate $ \frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^{2}} $ $ (0.\frac{3}{3} + \frac{3}{3} + 7) $	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey is 270 miles. How many hours did the entire journey take?
7. Solve for $x$ and $y$ $ x = \frac{5}{3} + \frac{5}{3} + \frac{5}{3} = -2 + 5 + \frac{3}{3} = \frac{12}{1.67} $ $ x = \frac{5}{3} + \frac{5}{3} = -2 + 5 + \frac{3}{3} = \frac{12}{1.67} $ $ x = \frac{5}{3} + \frac{7}{3} = \frac{12}{1.67} $ $ \frac{5}{3} + \frac{7}{3} = \frac{12}{1.67} $ $ \frac{5}{3} + \frac{7}{3} = \frac{12}{1.67} $	8. An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  700 300 300 (50 )
9. What is the area of the shaded region?  3 meters square meters	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?    50,000   60

•			Candi	ce M tion:	iore no Tuesday	800
Math 34A Winter 2021 Entrance Quiz	Put your final	answers in the		Score	8 /10	AM
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Scoring: A question is eigher completed by the score under 4 on this test, you follow the score 4-7, seek help NOW: If you score 8-10, congratulations!	should consider d aybe enroll in CL	ropping the class. AS?	ints).		·	
1. Solve for $x$ in the equation $3(x+4) = k(x-2). \qquad x = \frac{1}{2}$	2 Kr 4 D. J. C. C. S.	2. Multiply out and	$(1+x)(1-2x)$ $1 \times -2x$	" ···	swer.	
denominator and simplify.	-9 15 15 19 19	4. What is 25% of	4/3 of 12?	4		· · · · · · · · · · · · · · · · · · ·
5. Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)}$	2	6. A car travels at rest of the journ How many hou	t 50 mph for 3 h ney. The length ars did the entire	of the jour	ney is 270 mile	e s.
7. Solve for $x$ and $y - 8 = -72$ $x = 3x - 5y = -2$ $x + y = 10$ $y = 3(x) - 5y = -2$ $x + y = 10$ $y = 3(x) - 5y = -2$ $x + y = 10$ $3(x) - 5y = -2$ $x + y = 10$ $3(x) - 5y = -2$	$   \begin{array}{c c}                                    $	sold another to	the apples at a on for \$150. The	price of \$2 remainder	00 per ton. S she sold at \$1	he
9. What is the area of the shaded re-		10. If I earn \$200, of what I earn	,000 and pay \$80	), 000 in tax	k, what percent	age

Low) square meters

3 meters

- 4 meters ---

Ø -1/J

60%

Put your final answers in the

Score

10

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Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

84+12=XK-2K 1. Solve for x in the equation -12 - 12 - 12

$$3(x+4) = k(x-2). \quad x = \frac{-17-2 \times 1}{3-x}$$

2. Multiply out and simplify. Check your answer.

Salah Balah Balah Balan dan Jamah Balah sanata da

$$(1+x)(1-2x+x^{2})$$

$$1-2x+x^{2}+x-2x^{2}+x^{3}$$

$$x^{3}-x^{2}-x+1$$

3. Put over a common

denominator and simplify.

What is 25% of 4/3 of 12?

5. Calculate

 $\frac{20}{(16 - (\frac{1}{3} - \frac{1}{4})^{-1})^2} \frac{20}{(6^2 - (\frac{1}{3} - \frac{1}{4})^{-2})^2}$   $\frac{20}{(6^2 - (\frac{1}{3} - \frac{1}{4})^{-2})^2}$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

50(3) +60x=250 150+60x=270 60 60 x=2 hours

7. Solve for x and y = 0

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage

What is the area of the shaded region?

3 meters

square meters

of what I earn do I keep?  $\frac{6}{20} = \frac{4}{10} = \frac{2}{5},100 = \frac{20}{5}$ 

%

850

4 meters

2.0m

Math	34A	Winter	2021
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Put your final answers in the

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If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

张护二K

3(x+4) = k(x-2).

Multiply out and simplify. Check your answer.

 $(1+x)(1-2x+x^2) \quad \Big| - 2\chi + \chi^2 + \chi - 2\chi + \chi^2$ 

X3-X2-X+1

3. Put over a common denominator and simplify.

2x+3 3x+2

4. What is 25% of 4/3 of 12?

5. Calculate

 $\frac{5}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

Solve for x and y

3x - 5y = -2

3(10-7)-57=2

 $x = \binom{1}{2}$ 

30-34-54=2 -81=-32 4=4

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

9. What is the area of the shaded region?

4 meters

3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage

of what I earn do I keep?



			1 Carre	
Math 34A Winter 2021 Entrance Quiz	Put your fina	l answers in the	Score	10
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	*			
Scoring: A question is eigher comp If you score under 4 on this test, y If you score 4–7, seek help NOW: If you score 8–10, congratulations!	ou should consider of maybe enroll in CL	dropping the class. AS?		
1. Solve for x in the equation		2. Multiply out and simp	polify. Check your ans $+x)(1-2x+x^2)$	wer. - 2 × + = 2 + × +
$3(x+4) = k(x-2).$ $3 \times + 12 = \frac{1}{12} \times 2 \times 12 \times 2 \times 12 \times 12 \times 12 \times 12 \times 1$	-12-2K	$\times^3 + 3 \times^2$	- X + 1	
3. Put over a common denominator and simplify.	X 19 15	4. What is 25% of 4/3 of	of 12?	
5. Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)\right)}$	$\frac{9 \times 46}{15}$	6. A car travels at 50 m rest of the journey. Thow many hours did 50 × 3 150 150 150 150 150 150 150 150 150 150	The length of the journey to	ney is 270 miles.
7. Solve for $x$ and $y$		8. An entrepreneur bou She sold half the ap sold another ton for	ight 7 tons of apples in the ples at a price of \$20 \$150. The remainder profit did she make?	on per ton. She she sold at \$100
9. What is the area of the shaded		10. If I earn \$200,000 a of what I earn do I		, what percentage
3 meters	square meter	200,000		%

← 4 meters →

Math	34A	Winter	2021
Entra	nce (	$\operatorname{Quiz}$	

Put your final answers in the

	,
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No calculators

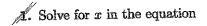
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If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.



$$3(x+4) = k(x-2).$$
  $x = 3k$   
 $3x + 12 = kx - k2$ 

Multiply out and simplify. Check your answer.

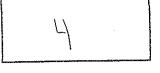
$$(1+x)(1-2x+x^2)$$

$$\frac{x^3 + x^2 - x - 1}{1 - 2x + x^2 + x - 2x^2 + x^3}$$

denominator and simplify.

plify. 
$$\frac{2x+3}{3} - \frac{3x+2}{5}$$

4. What is 25% of 4/3 of 12?



5 Calculate

$\overline{\left(16\right)}$	$5-\left(\frac{1}{3}\right)$	$-\frac{1}{4})^{-}$	$\left(\frac{1}{2}\right)^2$

20

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

An entrepreneur bought 7 tons of apples for \$100 per ton.

She sold half the apples at a price of \$200 per ton. She

20 MbN .	101	5	V
(O) mph	\$\hat{\chi} \cdots \cdo	7	

hours

270

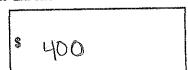
7. Solve for x and y

$$3x - 5y = -2$$

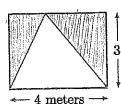
$$x + y = 10$$

x =

sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make? \$100 per ton



9. What is the area of the shaded region?



3 meters

12 square meters 10) If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

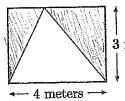


Entrance Quiz  No calculators  provided on this page.  Scoring: A question is eigher completely correct (1 point) or wrong (0 points).  If you score under 4 on this test, you should consider dropping the class.  If you score 8-10, congratulations! You are ready for Math 34A.  1) Solve for $x$ in the equation $3x+12-kx-2k$ $3x-kx=-2k-12$ $3(x+4)=k(x-2)$ $x=3-k$ 3. Put over a common $3x+12-kx-2k-12$ $3x+12-kx-2k-12$ $3x+12-kx-2k-12$ 3. Put over a common $3x+12-kx-2k-12$ $3x+12-kx-2k-12$ 3. Put over a common
Scoring: A question is eigher completely correct (1 point) or wrong (0 points).  If you score under 4 on this test, you should consider dropping the class.  If you score 4-7, seek help NOW: maybe enroll in CLAS?  If you score 8-10, congratulations! You are ready for Math 34A.  (1) Solve for $x$ in the equation $3 \times + 12 = k \times - 2k$ $3 \times -k \times = -2k - 12$ $3(x+4) = k(x-2)$ . $x = \frac{-2k-12}{3-k}$ (1+ $x$ )(1- $x = \frac{2x+2}{3-k}$ (1+ $x = \frac{2x+2}{3-k}$ 3. Put over a common  1. denominator and sim-
Scoring: A question is eigher completely correct (1 point) or wrong (0 points).  If you score under 4 on this test, you should consider dropping the class.  If you score 4-7, seek help NOW: maybe enroll in CLAS?  If you score 8-10, congratulations! You are ready for Math 34A.  (1) Solve for $x$ in the equation $3x + 12 - kx - 2k$ $3x - kx = -2k - 12$ $3(x + 4) = k(x - 2)$ . $3 - kx = -2k - 12$ $3 - kx = -2k - 12$ 3. Put over a common  1. denominator and sim-  2. Multiply out and simplify. Check your answer. $1 - 2x + x^2$ $1 - 2$
If you score under 4 on this test, you should consider dropping the class.  If you score 4-7, seek help NOW: maybe enroll in CLAS?  If you score 8-10, congratulations! You are ready for Math 34A.  1. Solve for $x$ in the equation $3 \times + 12 = k \times - 2k$ $3 \times - k \times = -2k - 12$ $3(x+4) = k(x-2)$ . $3 \times (3-k) = -2k - 12$ 3. Put over a common  1. denominator and sim-  1. What is 25% of 4/3 of 12?
If you score 4-7, seek help NOW: maybe enroll in CLAS?  If you score 8-10, congratulations! You are ready for Math 34A.  (1) Solve for $x$ in the equation $3 \times + 12 = k \times - 2 \cdot k$ $3 \times - k \times = -2k - 12$ $3(x+4) = k(x-2).$ $2 \times (3-k) = -2k - 12$ $3 - k \times (3-k) = -2k - 12$ 3. Put over a common  (2) Multiply out and simplify. Check your answer. $1 - 2x + x^2$ $1 - 2x + x^2$ $1 - x - 2x^2 + x^3$ 3. Put over a common  (4) What is 25% of 4/3 of 12?
If you score 8-10, congratulations! You are ready for Math 34A.  1) Solve for $x$ in the equation $3 \times + 12 = k \times - 2k$ $3 \times -k \times = -2k - 12$ $3(x+4) = k(x-2).$ $2 \times -k \times = -2k - 12$ $3(x+4) = k(x-2).$ $2 \times -k \times = -2k - 12$ $3 \times -k \times = -2k - 12$ $4 \times -k \times = -2k -$
$3 \times + 12 = k \times - 2k$ $3 \times - k \times = -2k - 12$ $3(x+4) = k(x-2).$ $x = 3 - k$ $3 \times (3-k) = -2k - 12$ $x = 3 - k$ $x$
$3 \times + 12 = k \times - 2k$ $3 \times - k \times = -2k - 12$ $3(x+4) = k(x-2).$ $x = 3 - k$ $3 \times (3-k) = -2k - 12$ $x = 3 - k$ $x$
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X(3-k) = -2k-12 3. Put over a common 4. What is 25% of 4/3 of 12?
X(3-k) = -2k-12 3. Put over a common 4. What is 25% of 4/3 of 12?
3. Put over a common  denominator and sim-  denominator and sim-  4. What is 25% of 4/3 of 12?
denominator and sim-
denominator and sini-
plify. 4 98 3/48
(2x+3)5(3x+2)3
1275 15 3
5. Calculate  6. A car travels at 50 mph for 3 hours and at 60 mph for the
20 / rest of the journey is 270 miles.
3.50 = 150 270 60 120  hours
270 60 120
(a) and (a mak
7. Solve for $x$ and $y$ $x = \begin{cases} 8. \text{An entrepreneur bought 7 tons of apples for } $100 \text{ per ton.} \\ \text{She sold half the apples at a price of $200 per ton.} \\ \text{She sold half the apples at a price of $200 per ton.} \end{cases}$
$\times$ ty = $\frac{1}{3x-5y}=-2$ sold another ton for \$150. The remainder she sold at \$100
She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold that the applies at a pint of value $y = 4$ She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make? $y = 4$
3(10-4)-54=2=1 $3(10-4)-54=2=1$ $3(10-4)-54=1$ $3(10-$
30-39-5y=-2=) -8 -8 2-50 St total=1100-700=0
What is the area of the shaded region? 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage
of what I nown do I keen?
of what I earn do I keep?
$6 \text{ square meters}  2 \circ \circ - 8 \circ = 120$
3 meters $6 \text{ square meters}  2 = \alpha - 8 \circ = 120$ $6 \text{ square meters}  2 = \alpha - 8 \circ = 120$
3 meters $6 \text{ square meters}  2 = \alpha - 8 \circ = 120$ $6 \text{ square meters}  2 = \alpha - 8 \circ = 120$
6 square meters 200-80=120 %

Yael Berukhim

	Elika Zalvadi 3947280 Matu 34A
Math 34A Winter 2021 Put your final	answers in the
Entrance Quiz	Score $\mathcal{O}/_{10}$
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Scoring: A question is eigher completely correct (1 points)	nt) or wrong (0 points).
If you score under 4 on this test, you should consider d If you score 4–7, seek help NOW: maybe enroll in CL. If you score 8–10, congratulations! You are ready for M	AS!
1. Solve for $x$ in the equation	2. Multiply out and simplify. Check your answer.
	$(1+x)(1-2x+x^2)$
$3(x+4) = k(x-2).$ 3 x + 12 = k x - 2 \( \)	1-X-X2+X3
3. Put over a common denominator and simplify. $2x + 3  3x + 2$ $2x + 3  3x + 2$ $2x + 3  3x + 2$ $3x + 2  3x + 3$	4. What is 25% of 4/3 of 12?
3.5 5.3 15 15 15 15 15 15 15 15 15 15 15 15 15	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?
	50.3 = 150 120 5 hours
	2 at 60 3 t 2 = 5
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$	8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 4.5 150 per ton. How much profit did she make?
	1100

9. What is the area of the shaded region?



3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

\$ 400

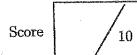


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400

Math 34A Winter 20 Entrance Quiz	21
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Scoring: A question If you score under 4 If you score 4–7, seel If you score 8–10, co	on this test, you s k help <b>NOW</b> : ma
1. Solve for $x$ in the $\epsilon$	equation
$3(x+4) = k(x)$ $3 \times 12^{-1} \times 12^{-1}$	(x-2). $x=$
3.) Put over a com	mon
denominator and	į
plify.	49
$\frac{2x+3}{3} - \frac{3x-3}{5}$	+2
3 - 5	5
5. Calculate	20
1	

Put your final answers in the
provided on this page.
gher completely correct (1 point) or wrong (0 points).
his test, you should consider dropping the class.
p NOW: maybe enroll in CLAS?





tulations! You are ready for Math 34A.

2. Multiply out and simplify. Check your answer.  $(1+|x)(1-2x+x^2)$ 

x = |U|

4. What is 25% of 4/3 of 12?

U

 $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

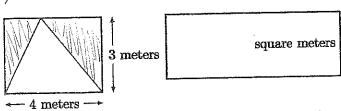
7/ Solve for x and yx =3x - 5y = -2x + y = 10

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

1700 3.5

**\$** 250

9/ What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

Math	34A	Winter	2021
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Put your final answers in the



Isabella Agrusa

Score	4	10

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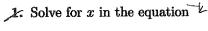
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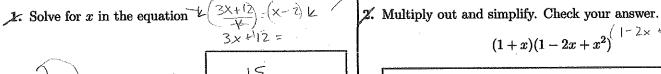
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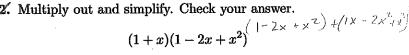
If you score 4-7, seek help NOW: maybe enroll in CLAS?

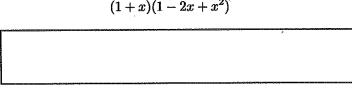
If you score 8-10, congratulations! You are ready for Math 34A.  $\frac{15}{2}$  +2 =  $\times^2$ 

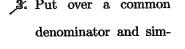


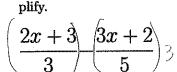


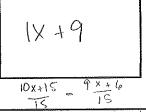
$$3(x+4) = k(x-2). \quad x = \frac{15}{4} + 2$$



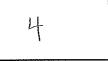




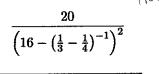


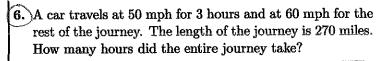


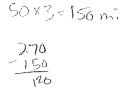


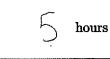


5. Calculate









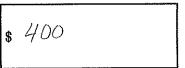
 $\mathcal{J}$ . Solve for x and y

$$3x - 5y = -2$$

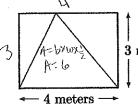
$$x + y = 10$$

$$x =$$





9\ What is the area of the shaded region?



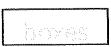
3 meters

 $(_{\mathcal{O}}$  square meters

19. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

> % IO

K-12



Score

No calculators

provided on this page.

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

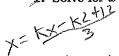
If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

Mustom Socied

1. Solve for x in the equation



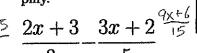
$$3(x+4)=k(x-2).$$

$$3(x+4) = k(x-2). \qquad x = \frac{k \times -k2}{3} + 4$$

2. Multiply out and simplify. Check your answer.

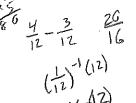
$$(1+x)(1-2x+x^2)$$

3. Put over a common denominator and simplify.

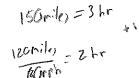


4. What is 25% of 4/3 of 12?

5. Calculate



- 6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



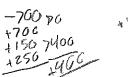
hours

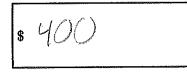
7.) Solve for x and y

$$3x - 5y = -2$$

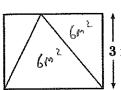
$$x + y = 10$$

- 35725
- 8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?





9. What is the area of the shaded region?



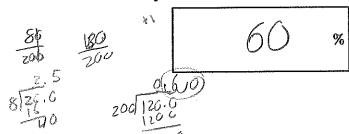
4 meters

3 meters

square meters

*₹* \

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



No calculators



provided on this page.

Score 7/10

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

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If you score 8-10, congratulations! You are ready for Math 34A.

Sizhe Ma

1. Solve for x in the equation

$$3(x+4) = k(x-2)$$
.  $x = \frac{2k+12}{k-3}$ 

$$(1+x)(1-2x+x^{2})$$

$$= \frac{1}{2} \frac{1}{2$$

**表** 

2. Multiply out and simplify. Check your answer.

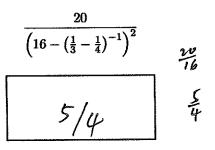
3. Put over a common denominator and simplify.

$$\frac{2x+3}{3} - \frac{3x+2}{5}$$

4. What is 25% of 4/3 of 12?

4

5. Calculate



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

5 hours

7. Solve for x and y

$$3x - 5y = -2$$

$$x + y = 10$$

$$7 \quad \lambda \times -5 \quad \beta = -2$$

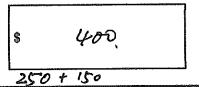
$$3x - 5y = -2$$

$$y = -2$$

$$3y = 3y$$

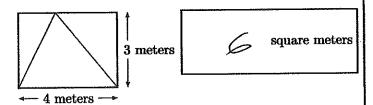
-24 = 428

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

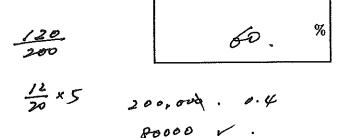


9. What is the area of the shaded region?

3x +35-30



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



	01/9	элоэБ
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Put your final answers in the

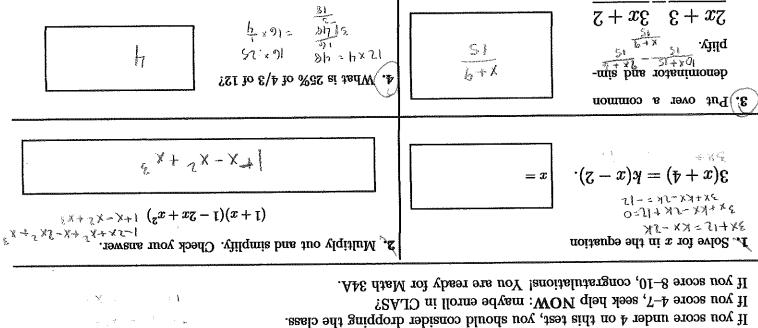
LUCIA (ARCHMO)
Math 34A Winter 2021
Entrance Quiz

No calculators

provided on this page.

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

0



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

smoy = 150 m; 13M2 = 150 m;

7 h=

An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

09/ 09/ \$

0.21 + (0.01 x 2.5) 0.21 + (0.01 x 2.5)

*ā* 

 $\left(1 - \left(\frac{1}{4} - \frac{1}{4}\right) - \delta 1\right)$ 

*}*₁ = *n* 

Solve for x and y

$$2 - = yz - xz$$

$$2 - = yz - xz$$

$$0 = yz + x$$

$$0 = x$$

5. Calculate

Az zk

01=1-49

10. If I carn \$200, 000 and pay \$80, 000 in tax, what percentage of what I carn do I keep?

 $\frac{201}{5h} = \frac{2}{7}$   $\frac{201}{x} = \frac{2}{7}$ 

square meters

3 meters

Mat is the area of the shaded region?

1995 007

Put your final answers in the

Entrance Quiz Math 34A Winter 2021

No calculators

J Solve for x in the equation

provided on this page.

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help MOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

2. Multiply out and simplify. Check your answer.

(1+x(1-1)(x+1))

**Score** 

4. What is 25% of 4/3 of 12?

denominator and sim-3. Put over a common

3(x+4) = k(x-2).

 $\frac{1}{2\left(1-\left(\frac{1}{4}-\frac{1}{4}\right)-61\right)}$ 

 $\frac{1}{5}$ ,  $\frac{2x+3}{6}$   $\frac{5+x2}{5}$ plify.

5. Calculate

How many hours did the entire journey take? rest of the journey. The length of the journey is 270 miles. 6. A car travels at 50 mph for 3 hours and at 60 mph for the

ponta

00h

%

 $\chi - 0 = u$  $\frac{\xi}{2-\mathcal{K}\mathfrak{I}}=x$ 

7. Solve for x and y

$$2 - = yb - xb$$
$$0b = y + x$$

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage

sold another ton for \$150. The remainder she sold at \$100

She sold half the apples at a price of \$200 per ton. She

8. An entrepreneur bought 7 tons of apples for \$100 per ton.

per ton. How much profit did she make?

09 of what I earn do I keep?

9. What is the area of the shaded region?

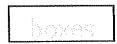
square meters

3 meters

ereters − 4 meters

meno Magama

Math 34A Winter 2021 Entrance Quiz Put your final answers in the



Score  $\left| \varphi \right|_1$ 

No calculators

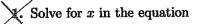
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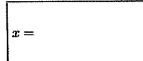
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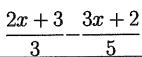
3(x+4) = k(x-2).



Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

? Put over a common denominator and simplify.

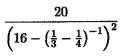


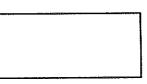


4. What is 25% of 4/3 of 12?

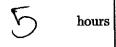


6. Calculate





6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



7. Solve for x and y

$$3x - 5y = -2$$
$$x + y = 10$$

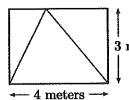
$$x = \bigcirc$$

$$y =$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



9. What is the area of the shaded region?



3 meters



square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



Put your final answers in the



Score

No calculators

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If you score 8-10, congratulations! You are ready for Math 34A.



**1.** Solve for x in the equation 3(0)+4=K(0-2) 0+4=0-24

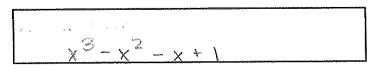
$$3(x+4) = k(x-2)$$
.  $x = -6/5$ 

$$x = -\frac{6}{5}$$

2. Multiply out and simplify. Check your answer.

-2+1=-1

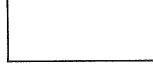
$$(1+x)(1-2x+x^2)$$



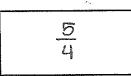
3. Put over a common 12× denominator and simplify.  $\frac{10x+15}{10x+15}$ 

$$\frac{2x+3}{3} = \frac{3x+2}{5} = \frac{2x+3}{5} = \frac{3x+2}{5} = \frac{2x+3}{5} = \frac{3x+2}{5} = \frac{2x+3}{5} = \frac{3x+3}{5} = \frac{3$$

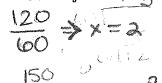
4. What is 25% of 4/3 of 12?



5. Calculate  $XH = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$   $XH = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$   $(16 - (\frac{1}{3} - \frac{1}{4})^{-1})^{\frac{2}{4}} = \frac{30}{10} + \frac{5}{4}$ 



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



hours

Solve for x and y

$$3x - 5y = -2$$

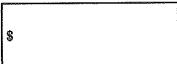
$$3 \times 5 y = 3$$

$$- \times 4 y = 10$$

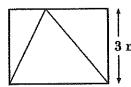
$$2 \times -4 y = 8$$

x =

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



9. What is the area of the shaded region?

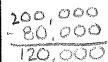


4 meters

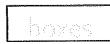
3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



No calculators



provided on this page.

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

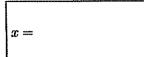
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If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

$$3(x+4) = k(x-2).$$



2. Multiply out and simplify. Check your answer.  $1-2x+x^{2}+x-2x+x^{3}+x^{2}+x^{3}+x^{2}+$ 

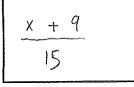
$$1-x-x^2+x^3$$

1/3 of 12

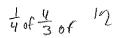
3. Put over a common

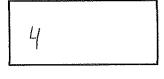
denominator and sim-

1	2x+3	(3x+2)
	3	5



4. What is 25% of 4/3 of 12?





5. Calculate

452

 $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2} |b|^2 + \left(\frac{1}{3} - \frac{1}{4}\right)^{\frac{1}{3}}$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

7. Solve for x and y

$$3x - 5y = -2$$

$$x + y = 10$$

$$3(10-4)-5y=-2$$

$$30 - 3y - 5y = -2$$

$$x = 6$$

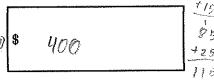
$$y = \zeta$$

$$\frac{-8_{\mathsf{y}}=-32}{-8}$$

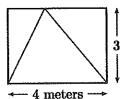
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 6 acc per ton. How much profit did she make?

$$3.5 \times 200 = \frac{100}{250}$$

$$3.5 - 1 = 2.5 = \frac{500}{2000}$$



9. What is the area of the shaded region?



3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

200,000 - 80,000



%

200,000 120,000,0

1700,00

Put your final answers in the



Score

No calculators

provided on this page.

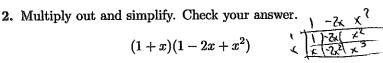
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If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation 3x412 = KX - 2K 3(x+4) = k(x-2).  $x = \frac{-2k+12}{3-k}$ 



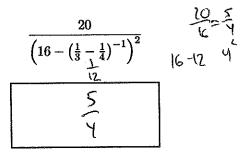
3. Put over a common denominator and sim-10x+154-9x-6 plify.  $2x+3 \quad 3x+2^{1/3}$ 



4. What is 25% of 4/3 of 12?

4	
---	--

5. Calculate



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



7. Solve for x and y

$$3x - 5y = -2$$

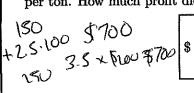
$$5x + 5y = 50$$

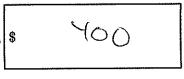
$$8x = 48$$

$$4x = 6$$

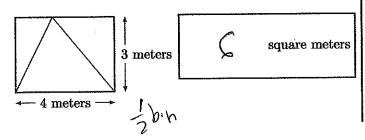
$$x = \zeta$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?





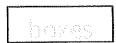
9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

$$\frac{120}{700} = \frac{60}{1000} \qquad 60$$

Put your final answers in the



Score 3/10

No calculators

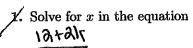
provided on this page.

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If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.



$$3(x+4) = k(x-2).$$

$$3 \times + 12 = k \times - 2k$$

$$\frac{3x}{5} = \frac{kx - 3k - 1}{3}$$

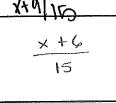
$$x = \frac{\mathbb{K} \times - 2\mathbb{K}}{3} - 4$$

2. Multiply out and simplify. Check your answer.

3. Put over a common

denominator and simplify.

$$\frac{2x+3+3x+2}{3} + \frac{3x+2}{5} = \frac{2x+6}{2x+6}$$



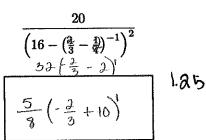
. What is 25% of 4/3 of 12?

$$\frac{4}{5} \times 12 = \frac{48}{3} = 16$$

8

4

Z. Calculate



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

$$\frac{3x + 100 = 270}{-100}$$

$$\frac{3x}{3} = \frac{160}{3}$$

52 hours

x = 52 5/W

7. Solve for x and y

$$3x - 5y = -2$$

$$x + y = 10$$

$$\frac{3x-5(0)=-2}{3}$$

$$x=-43$$

$$x = -\frac{2}{3}$$

$$\begin{pmatrix} -\frac{2}{3} \end{pmatrix} + y = 10 + \frac{12}{3} + \frac{12}{3} = 4$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

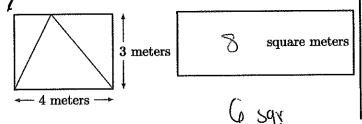
$$\frac{7x = 450}{7} = \frac{47}{71450}$$

$$x = 64 = \frac{42}{25}$$

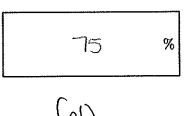
$$x = 64 = \frac{450}{25}$$

$$x = 64 = \frac{450}{25}$$

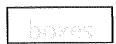
. What is the area of the shaded region?



19. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



Put your final answers in the



Score

No calculators

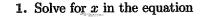
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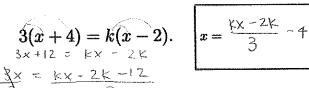
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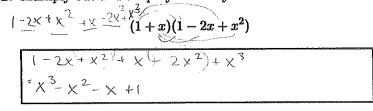
If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.



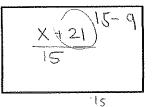


2. Multiply out and simplify. Check your answer.

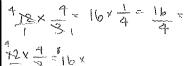


3. Put over a common

denominator and simple  $\frac{9x+15}{15}$  plify.  $\frac{9x+16}{15}$   $\frac{2x+3}{3}$   $\frac{3x+2}{5}$ 



4. What is 25% of 4/3 of 12?



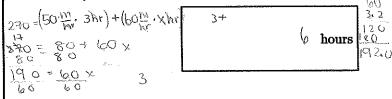
4

5. Calculate

20  $\frac{x^{\frac{1}{4}} \frac{1}{4} \cdot \frac{1}{4}x^{\frac{3}{4}}}{\left(\frac{1}{3} - \frac{1}{4}\right)^{-1}} = \frac{20}{\left(\frac{1}{3} - \frac{1}{4}\right)^{-1}} = \frac{1}{12} \cdot \frac{3}{12} = \frac{1}{12}$   $20 - \left(\frac{1}{3} - \frac{1}{4}\right) = \frac{5}{12} \cdot \frac{1}{12}$   $5 - \left(\frac{1}{3} - \frac{1}{4}\right)$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles.

How many hours did the entire journey take?



7. Solve for x and y

3
$$x - 5y = -2$$

$$5x + 5y = 50$$

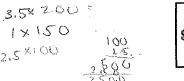
$$6 \times + 48$$

$$x + 5y = 50$$

$$x + 48$$

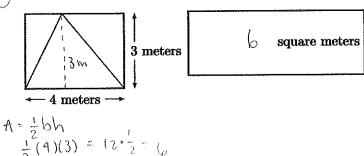
$$x = \bigcup_{\mathscr{O}}$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 \( \frac{100}{500} \) per ton. How much profit did she make?

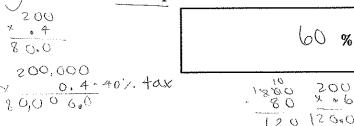


\$ 1,100 | 1700 1100

9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



Put your final answers in the



Score

#### No calculators

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If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for $x$ in the equation	3 (x+4) =	=(x-2)
3x+12= kx-2k	k	(x+4)

$$3(x+4) = k(x-2).$$

$$x = \frac{3(x+4)}{k} = x-2$$

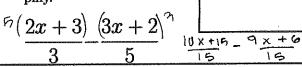
2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

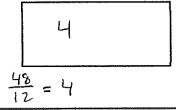
$$X^3 - X^2 - X + 1$$

# 3. Put over a common

denominator and simplify.



4. What is 25% of 4/3 of 12?



### 5. Calculate

12	4-3-12	1 12
----	--------	------

$$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$$

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

8. An entrepreneur bought 7 tons of apples for \$100 per ton.

hours

## 7. Solve for x and y

$$3x - 20 = -2$$

$$3x - 5y = -2$$

$$4 = 6$$

$$x + y = 10$$

$$x = 10 - y$$

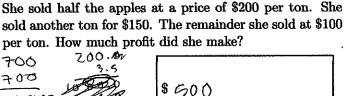
$$3(10 - y) - 5y = -2$$

$$30 - 3y - 5y = -2$$

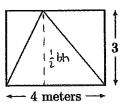
$$30 - 3y = -2$$

$$30 - 3y = -2$$

$$x = (_{\mathcal{O}}$$



9. What is the area of the shaded region?



 $\frac{1}{2}(4)(3) = 6$ 

3 meters

square meters 0

12-6=6

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

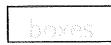


350

$$0 \overline{\smash) 200} \quad 120 = 60 = 30$$

No calculators

Put your final answers in the



Score

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If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

1 Solve for x in the equation

$$x = \sqrt{3}k - 4$$

2.) Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

3./ Put over a common denominator and simplify.

$$2x+3 \quad 3x+2$$

(X-9)

4. What is 25% of 4/3 of 12?



5./Calculate

$$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$$

125

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

7. Solve for x and y

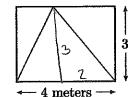
$$3x - 5y = -2$$

$$x + y = 10$$

$$y = \iota \downarrow$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

9. What is the area of the shaded region?



=12

3 meters

( square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage

√of what I earn do I keep?

%

 $\frac{1}{1}(n \times n)$ (6) =  $3 \times 2 = 6$ 

Put your final answers in the



Score

No calculators

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If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

12+2k	
K-3	

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

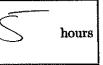
3(x+4) = k(x-2).  $x = \frac{kx-2k}{3} - 4$ 

3. Put over a common denominator and simplify.

$$\frac{2x+3}{3} - \frac{3x+2}{5}$$

What is 25% of 4/3 of 12? 三= 4-19=16

- 5. Calculate
- A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



7. Solve for x and y

$$3x - 5y = -2$$

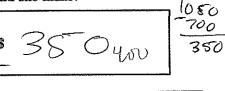
$$x + y = 10$$

$$x = \ell_o$$

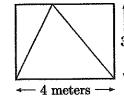
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

10.) If I earn \$200,000 and pay \$80,000 in tax, what percentage

of what I earn do I keep?



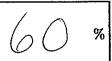
9. What is the area of the shaded region?



3 meters

(o

square meters



Rectangle: 12 m2

5

1/2

FOIC
------

hat Brydson Put your final answers in the

Math 34A Winter 2021

**Entrance Quiz** 

(3x+12)(x-2)

Score



No calculators

$$3 \times \frac{12}{(X-2)}$$

$$3 \times \frac{2}{-6} \times \frac{12}{X} - \frac{24}{\text{provided on this page.}}$$

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

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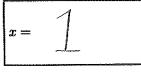
1. Solve for x in the equation

x in the equation 
$$\frac{k-3x+12}{x-2} \cdot \frac{x-2}{x}$$

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

3(x+4) = k(x-2). 3x+12 = 3x+12, x-2



 $\times^3 - \times^2 - \times +1$ 

3. Put over a common denominator and simplify.

$$\frac{2x+3}{3} - \frac{3x+2}{5}$$

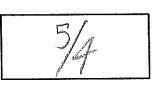
15 or 3x+7

4. What is 25% of 4/3 of 12?



5. Calculate

$$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$$



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

7. Solve for x and y

$$3x - 5y = -2$$

$$x + y = 10$$

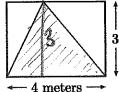
$$y =$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



What is the area of the shaded region?

2+62=c2



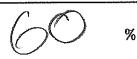
3 meters



square meters



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



Math	34A	Winter	2021
Entra	nce (	$\mathbf{Quiz}$	

No calculators

Put your final answers in the (I 90 by

Reliar / Score

Isabella Bishop

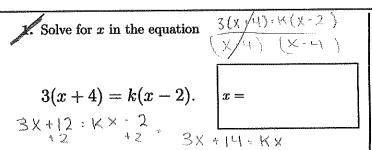
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Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

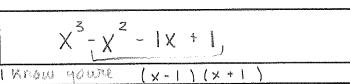
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If you score 8-10, congratulations! You are ready for Math 34A.



2. Multiply out and simplify. Check your answer. Pendo S  $(1+x)(1-2x+x^2) = [-2 \times + x^2] \times (2x^2 \times x^2)$ 

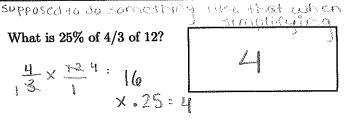


3. Put over a common denominator and simplify.

 $2x + 3 \quad 3x + 2$ 

4. What is 25% of 4/3 of 12?

4 × 12 4 : 16 × .25 : 4



investat when

5. Calculate

(16-(3.4)) 20 [

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

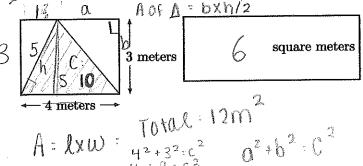
7. Solve for x and y

3(-4+10)-54=-2

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

7+000 @ \$100/100 3.5(200)+1(5150)+ \$ 1,100

%. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

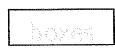
60 % what % of 200,000 is 80,000 Keeping \$110,000

\$50,000 is 25% zoo,000 x (./.)=120,

Math	34A	Winter	2021
Entra	nce (	$\mathbf{Quiz}$	

### No calculators

Put your final answers in the



KAMI CP Score



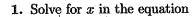
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If you score 8-10, congratulations! You are ready for Math 34A.



3x + 15 = kx - 5k3x = KX - JK - K

$$3(x+4) = k(x-2).$$
  $x = \frac{kx}{3} - \frac{2}{3}k - 4$ 

2. Multiply out and simplify. Check your answer.

 $(1+x)(1-2x+x^2)$ 

 $\chi^3 - \chi^2 - \chi + 1$ 

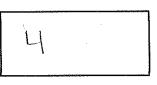
3. Put over a common denominator and sim-

plify.

$$\frac{2x+3}{3} - \frac{3x+2}{5}$$

What is 25% of 4/3 of 12?  $\frac{1}{3}$ . 12  $= \frac{1}{3} \cdot \frac{36}{3} = \frac{144}{9}$ 

144. 1 = 144 = 4



5. Calculate

 $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$ 


6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

150 miles = 3 homs 210 = 4 h. 270 = 5h

hours

7. Solve for x and y

 $3x - \frac{3}{3}$  3x - 5y = -2 x + y = 10 -6y + 1

$$3x - 5y = -2$$

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

\$100 EOF 101 74ch5 \$ 200 - 3.5

\$150.1

\$ 100 - 2.5

\$ 1100

9. What is the area of the shaded region?

4 meters

3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

\$120,000 S08

Kyla	Drengler	Spin
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No calculators

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	į	×
-2x5-	2x	X -2x <sup>2</sup> x 3

1. Solve for x in the equation

$$3(x+4) = k(x-2).$$

x =

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$
  $(1+x)-(2x+2x^2)+(x^2+x^2)$ 

 $x^3 - x^2 - x + 1$ 

3. Put over a common

denominator and simplify.  $10 \times 415 - 7 \times -6$ 

 $5(\frac{2x+3}{3},\frac{(3x+2)^{3}}{5})$ 

- x +9 15 (0×15) - (9x+6)
- 4. What is 25% of 4/3 of 12?

12.43 16 \* 7

4

5. Calculate

 $\frac{20}{\left(16 - \left(\frac{14}{3} - \frac{31}{4}\right)^{-1}\right)^{2}} = \frac{20}{16}$   $\frac{16 - \left(\frac{14}{3} - \frac{31}{4}\right)^{-1}}{\frac{12}{12}} = \frac{16 - 12}{16}$ 

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

270 -150 miles 120 60120 Zhours

hours

7. Solve for x and y

$$3x - 5y = -2$$

$$5 (x + y = 10)$$

$$5x + 5y = 50$$

8x = 48 6 = 8 56

 $x = \sqrt{g}$ 

 $y = \mathcal{A}$ 

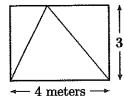
6=> 6+y=10 y=4

8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

700 - 700 700 - 700 703.5 × 200 = 700

400

9. What is the area of the shaded region?



3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

200000 80000 12000 0 60

%

keep 120k

No calculators

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Score



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1. Solve for x in the equation

$$3(x+4) = k(x-2).$$

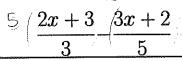
$$3x + 12 = kx - 2 + 12$$

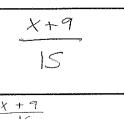
$$x = \frac{KX - 2K - 12}{3}$$

$$(1+x)(1-2x+x^2)$$

3. Put over a common

denominator and simplify.  $\frac{10x + 15 - 9x - 6}{15}$ 





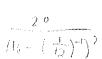
4. What is 25% of 4/3 of 12?

上、生。上、18年4



5. Calculate

 $\frac{20}{\left(16 - \left(\frac{3}{13} - \frac{4}{12}\right)^{1}\right)^{2}} \frac{26}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^{2}}$ 



- 5
- 4° 20
- 50 mi 60 · X = 120 x = 2
- rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

>= 2 2+3 > 5 hrs

7. Solve for x and y

3x - 5y = -2x + y = 10

3(10-y) - 5y = -2 30-34-54 = -2

$$x = \bigcirc$$

y =

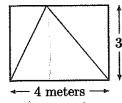
- -8y=----
- 8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

6. A car travels at 50 mph for 3 hours and at 60 mph for the

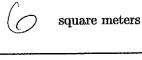
3.5 marks: 1200 7 mms = \$700

- 3.5 (\$200) = 700 1/4 \$50) = 140 2.5 (100) = 250 = 160
- **\$** 400

9. What is the area of the shaded region?



3 meters



An . wh 12

10- 104 114, 12-6 - 104)(3) - 6 = 6 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

200 - 80 -120



Put your final answers in the



Bryan Viola Score



No calculators

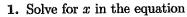
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Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

If you score under 4 on this test, you should consider dropping the class.

If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.



3x+12 (4/102x=6

$$3(x+4)=k(x-2). \quad |x=\frac{1}{2}+3|$$

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

 $1x - 2x^{2} + x^{3}$ 

3. Put over a common

denominator and simplify.

 $\frac{3x+3}{15} \frac{3x+3}{3} \frac{3x+2}{5}$ 

4. What is 25% of 4/3 of 12?

4

5. Calculate

 $\frac{16-\left(\frac{1}{3}-\frac{1}{4}\right)^{-1}}{\left(16-\left(\frac{1}{3}-\frac{1}{4}\right)^{-1}\right)^2}$ 

10 tes 30 - 20 16

3(10-4)-54 =-2

30-34-54=6

32 = 84

6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

8. An entrepreneur bought 7 tons of apples for \$100 per ton.

150 vales

170

hours

7. Solve for x and y

$$3x - 5y = -2$$

x + y = 10

18-20=-7/

 $\chi$  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

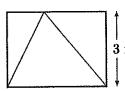
700

700 1

750

400

9. What is the area of the shaded region?



4 meters

3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage

 $\downarrow \setminus$  of what I earn do I keep?

60

Brandy & Rodriguez Math 34A Winter 2021	Put your final	answers in the		71
Entrance Quiz			Score	$\frac{2}{10}$
No enculators		on this page.	e militaristica (m. 1991)	
Scoring: A question is eigher comple If you score under 4 on this test, you If you score 4–7, seek help NOW: m If you score 8–10, congratulations! Y	should consider d aybe enroll in CL	ropping the class. AS?		
1. Solve for x in the equation		2. Multiply out and simplify.	Check your ansv	wer.
3(x+4) = k(x-2). $x = 3x + 12 = -1k - 12$	$-\frac{K-4}{3}$	$\frac{-1\chi}{1-2\chi} + \chi^{2} + \chi^{2} - \chi^{3} + \chi^{3} + \chi^{3} + \chi^{3}$	$-2x + x^2$ $-2x + x^2$	(3 + X L - X + 1
3. Put over a common denominator and simplify.	4+8	4. What is 25% of 4/3 of 12?		
$\frac{2x+3}{3} - \frac{3x+2}{5}$				
$ \begin{array}{c c} \hline                                    $	3 16 X16 196 260 356 20-1 -1 •	6. A car travels at 50 mph for rest of the journey. The len How many hours did the en 50 mph = 3 hr	gth of the journ ntire journey ta	ey is 270 miles.
	20+16+9	1991,20	) Wilez	70
3x - 5y = -2 $x + y = 10$	10, -213	8. An entrepreneur bought 7 She sold half the apples a sold another ton for \$150. per ton. How much profit	t a price of \$20 The remainder	or \$100 per ton. 00 per ton. She + 150 she sold at \$100,77,150
$3x - 5(6) = -2$ $3x = -2 \mid 3$ $-5y = -\frac{2}{-5}y = -2$	2/5,10	\$ 700 3.5 apple at 200 4.5 2.5 1000 1000 2.5 1000 ×1.5	\$ 1,100	100/400 100 0 100/400 1000
9. What is the area of the shaded reg	rion?	10. If I earn \$200,000 and pay of what I earn do I keep?		what percentage 250
3 meters	square meters		(	50 %
← 4 meters → bhllt		\$ 120,000 509°=100,00,60	0/02	

No calculators

provided on this page.

Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

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If you score 4-7, seek help NOW: maybe enroll in CLAS?

If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

$$3x - hx = -2k-12$$

$$x(3-h) = -2h-12$$

$$3(x+4) = k(x-2).$$

$$x = -2h-12$$

$$x = -2h-12$$

$$3x + 12 = hx - 2h$$

$$3x + 12 = lex - 2k$$

$$-12 - lex$$

$$x = \frac{-2k-12}{3-k}$$

2. Multiply out and simplify. Check your answer.

$$(1+x)(1-2x+x^2)$$

1-x-x24.3

1-x-x2+x3

3. Put over a common

denominator and simplify.

10x+16

9x+16

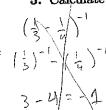
15

 $\left(\frac{2x+3}{3}\right)\left(\frac{3x+2}{5}\right)^{3}$ 

4. What is 25% of 4/3 of 12?

 $\frac{4}{3}.12 = \left(\frac{45}{3}\right)(0.25)$ 

5. Calculate



- $\overline{\left(16-\left(\frac{1}{3}-\frac{1}{4}\right)^{-1}\right)^2}$
- 119
- 16-12=9=16
- 6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

8. An entrepreneur bought 7 tons of apples for \$100 per ton.

She sold half the apples at a price of \$200 per ton. She

$$\frac{270}{150}$$

hours

7. Solve for x and y

$$3x - 5y = -2$$
$$x + y = 10$$
$$x = 10 - 4$$

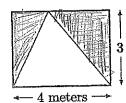
$$x = \bigcirc$$

$$y = \bigvee$$

$$y = \bigcup$$

- 8700 \$150
- sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?
  - 1100

9. What is the area of the shaded region?



3 meters

square meters

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

120 12 6

% ( ) ( )

Sebastian Avila	
Math 34A Winter 2021 Put your in Entrance Quiz	final answers in the  Score 0 10
Provide Scoring: A question is eigher completely correct (1)  If you score under 4 on this test, you should conside the story of the score 4-7, seek help NOW: maybe enroll in the score 8-10, congratulations! You are ready from the score story of the score score story of the score score story.	point) or wrong (0 points).  ler dropping the class.  CLAS?
$\mathbf{x}$ . Solve for $x$ in the equation	2. Multiply out and simplify. Check your answer. $ -2x+x^2+x-2x^4+x^3-2x^4+x^2-2x^2+x^2-2x^2-2$
$3(x+4) = k(x-2). \qquad x = -7$ $3x+12 = kx-2k$ $3x-kx+12 = -2k$ $2x = -19$ $x = -7$	$1-\chi-\chi^2+\chi^3$
3. Put over a common  denominator and sim- $\frac{3x+6}{15} = \frac{2x+3}{3} = \frac{3x+2}{5}$	4. What is 25% of 4/3 of 12? $\frac{1}{4} \cdot \frac{4}{3} \cdot \frac{12}{1} - \frac{4}{12} \cdot \frac{12}{12} \cdot \frac{48}{12}$
5. Calculate $ \begin{array}{c c} \hline                                    $	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  50 for 3 60 for 20 2 5 hours
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $x = 10 - y$ $3(10 - y) - 5y = -\lambda$ $30 - 3y - 5y = -\lambda$ $-8y = -32$ $4 + 4 = 10$ $x = 6$ $y = 4$ $x = 6$	An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  7 tons for 10 when = \$700 spent  3.5 × 200= \$700 made  \$
9. What is the area of the shaded region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?
3 meters 25 or 35 I forgot la square me	eters $200,000$ $\frac{20.4}{8.4}$ 60 %
$4 \text{ meters} \longrightarrow 2+b^a=c^2$	$\frac{5}{2} = 40\% 100-40$

9416=25

Put your final answers in the

Score 10

No calculators

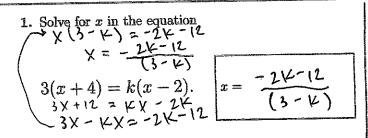
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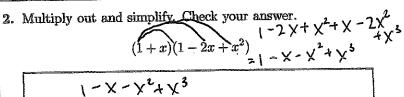
Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

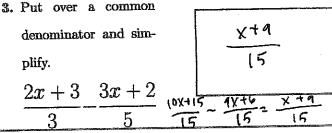
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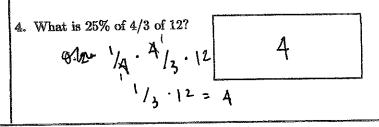
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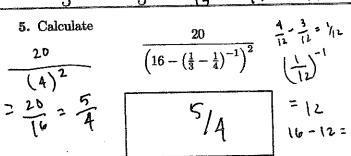
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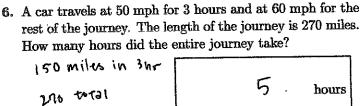




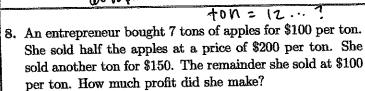


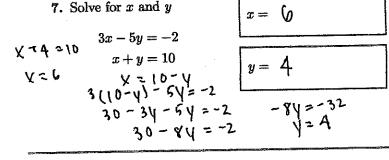


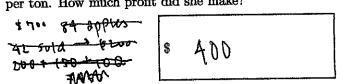


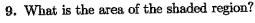


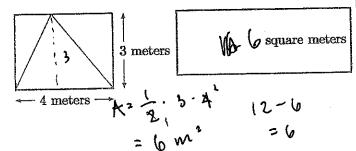
270-150=120 120 miles in 2hr



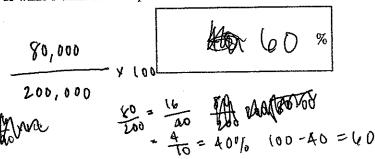




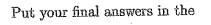


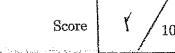


10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



Math 34A Winter 2021 Entrance Quiz
No calculators
Scoring: A question is If you score under 4 on





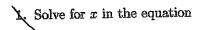
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s eigher completely correct (1 point) or wrong (0 points).

on this test, you should consider dropping the class.

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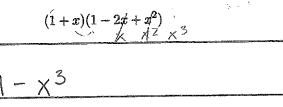
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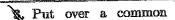


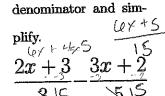
$$3(x+4) = k(x-2). \quad x = 3$$

$$3x+12 = k(x-2). \quad x = 3$$

$$3x+12 = k(x-2). \quad x = 3$$
Put over a common





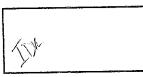


4. What is 25% of 4/3 of 12?



# 5 Calculate

$$\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$$



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

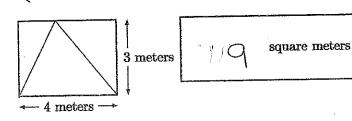
## $\chi$ . Solve for x and y

$$3x - 5y = -2$$

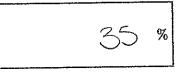
$$x + y = 10$$

$$y = \setminus \bigcirc$$

\$ 1150



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



Math 34A Winter 2021 Put your final Entrance Quiz	answers in the Score 10
No calculators provided o	n this page.
Scoring: A question is eigher completely correct (1 points of the source	nt) or wrong (0 points). ropping the class.  Name: Zihu Z AS?
1. Solve for x in the equation	2. Multiply out and simplify. Check your answer.
$3(x+4) = k(x-2).$ $x = \frac{12+2k}{k-3}$	$(1+x)(1-2x+x^2)$ $[-\chi -\chi + \chi^3]$
3. Put over a common denominator and simplify. $ 2x + 3  3x + 2 $ $ 3 $ $ 5 $	4. What is 25% of 4/3 of 12?
5. Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?
+1 5	+\ bours
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $y = $	8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  \$ 4\
9. What is the area of the shaded region?	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?
3 meters square meters	60 %

← 4 meters →

 $\lambda \setminus$ 

Alla Gurwitz			
HVA OUYWITZ  Math 34A Winter 2021  Entrance Quiz	Put your final	enswers in the	Score A 10
No calculators	provided on	this nage	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Scoring: A question is eigher complet If you score under 4 on this test, you If you score 4–7, seek help NOW: m If you score 8–10, congratulations! You	sely correct (1 point should consider dr aybe enroll in CLA	t) or wrong (0 points). opping the class.	-2x x x x x x x x x x x x x x x x x x x
Solve for $x$ in the equation $3 \times (x + 1) = k \times (x - 2).$ $3(x + 4) = k(x - 2).$ $x = -\frac{3}{3}$	$\frac{-K \times = -12 - 12}{(3 - K)}$ $\frac{(3 - K)}{(3 - K)}$ $\frac{(3 - K)}{(3 - K)}$	2. Multiply out and simplify. Che $(1+x)(1-2x)$ $\times \frac{3-x^2-x+1}{x^3-x^2-x^2-x^2-x^2-x^2-x^2-x^2-x^2-x^2-x^2$	ck your answer. $ x + x^2  = 2 \times + x^2 \times -2 \times + x^3$
3. Put over a common denominator and simplify. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 2.1	4. What is 25% of 4/3 of 12? $\frac{4}{3} \left( \frac{12}{1} \right)^{\frac{1}{10}} \left( \frac{1}{4} \right)^{\frac{1}{10}}$	4
5. Calculate $ \frac{1}{3} - \frac{1}{4} + \frac{4}{12} - \frac{3}{12} = \frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)} $ $ \frac{1}{12} - \frac{1}{2} = \frac{5}{4} $	2	6. A car travels at 50 mph for 3 h rest of the journey. The length How many hours did the entir $ 60 + (00 \times = 270)$ $(00 \times = 120)$ $\times = 2$	of the journey is 270 miles. e journey take?  hours
7. Solve for $x$ and $y$ $ \begin{vmatrix} 3x - 5y = -2 \\ 6 & x + y = 10 \\ x - y + 10 \end{vmatrix} $ $ \begin{vmatrix} 4x = -y + 16 \\ 3x - 10 \\ 4x = -y + 16 \end{vmatrix} $	6 4 3y +30-5y	8. An entrepreneur bought 7 ton She sold half the apples at a sold another ton for \$150. The per ton. How much profit did	s of apples for \$100 per ton. She copprise of \$200 per ton. She copper remainder she sold at \$100600 coppers. The make?
9. What is the area of the shaded reg	ion?	10. If I earn \$200,000 and pay \$8 of what I earn do I keep?	0,000 in tax, what percentage
3 meters	square meters	20/12/0	(Q) %
4 meters 12 2 1	)	200,000	200,000

12,0,00,000

12-6=6

Entrance Quiz  No calculators	
If you score 4-7, seek help NOW: maybe enroll in CL If you score 8-10, congratulations! You are ready for Now 1. Solve for $x$ in the equation $ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AS?
3. Put over a common denominator and simplify. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4. What is 25% of 4/3 of 12?  3   (, )   (
Calculate 20 $\frac{10}{13} = \frac{10}{13} = 1$	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  56 mgh
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $y = -x + 10$ $3x + 5x - 50 = -3 + 5x$ $3x + 5x - 50 = -3 + 5x$ $3x + 5x - 50 = -3 + 5x$ $3x + 5x - 50 = -3 + 5x$	8. An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  7 \( \text{100} - \text{1700} \)  3, 5 \( \text{tons} = \text{5100} \)  1 \( \text{ton} = \text{4150} \)  3, 5 \( \text{tons} = \text{5250} \)
9. What is the area of the shaded region?  3 meters	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

Put your final answers in the

Score

No calculators

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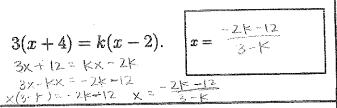
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If you score 8-10, congratulations! You are ready for Math 34A.

## $\downarrow$ 1. Solve for x in the equation



2. Multiply out and simplify. Check your answer.

simplify. Check your answer.
$$(1-2\times+\times^2+\times^2+\times^2)\times^2+\times^3$$

$$(1+x)(1-2x+x^2)\times^2+\times^3$$

$$1 - X - X_S + X_S$$

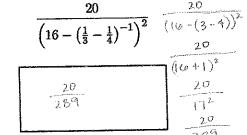
denominator and sim-10x+15-9x-6 olify.

4. What is 25% of 4/3 of 12?

5. Calculate

x 1%

71



6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

8. An entrepreneur bought 7 tons of apples for \$100 per ton.

+\ She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100

hours

2 W

per ton. How much profit did she make?

260

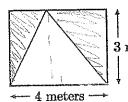
7. Solve for x and y $3x - 5y = -2 \quad 3x - 20 = 2$   $x + y = 10 \quad 3x = 18$  y = 4

$$x - 5y = -2 \frac{3x - 18}{3x + 18}$$
$$x + y = 10 \frac{3x + 18}{x + y}$$

$$y = 4$$

$$x = 10-9$$
 $3(10-y)-5y=-2$ 
 $-8y=-32$ 
 $x+4=10$ 
 $30-3y-5y=-2$ 
 $y=4$ 
 $x=6$ 

9. What is the area of the shaded region?



3 meters

square meters 6

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

11,00

60%

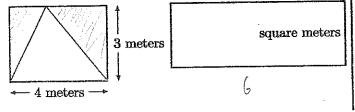
$$\frac{120000}{200000} = \frac{12}{20} = \frac{5}{6} - 60$$

4 meters -

 $12 - \frac{4(3)}{3} = 12 - 6 = 6$ 

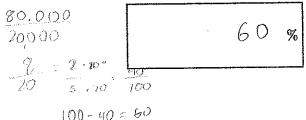
Anahi Pimentel Put your final answers in the Math 34A Winter 2021 Entrance Quiz Score -Ne calculators provided on this page. Scoring: A question is eigher completely correct (1 point) or wrong (0 points). If you score under 4 on this test, you should consider dropping the class. If you score 4-7, seek help NOW: maybe enroll in CLAS? If you score 8-10, congratulations! You are ready for Math 34A. Multiply out and simplify. Check your answer. 1. Solve for x in the equation 3 x + 12 = 1x = 2k 1 - X - X2 + X3 12+2K = XK-8K 12+2k = x(k-3) 3. Put over a common 4. What is 25% of 4/3 of 12? denominator and sim-Clate 4 plify.  $\frac{10 \times 15}{15} - \frac{9 \times 15}{15} = \frac{15}{15}$ 4. 4. 1/2 = 1 X + 9 6. A car travels at 50 mph for 3 hours and at 60 mph for the 20 5. Calculate rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take? 50 x 3 = 150 210 - 150 = 170 hours 120/60= 2 6700 8. An entrepreneur bought 7 tons of apples for \$100 per ton. 7. Solve for x and yShe sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 3x - 5y = -2 (8 - 202 - x + y = 10 6 + 9 = 10per ton. How much profit did she make? 3.5 x200 = 700 1 4.5 850 \$ 400 1100

9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

2.5 × 100 = 250



400

Math 34A Winter 2021 Entrance Quiz	Put your final	answers in the	Score	7/10
Scoring: A question is eigher con If you score under 4 on this test. If you score 4–7, seek help NOV If you score 8–10, congratulation	npletely correct (1 points), you should consider device the V: maybe enroll in CL	ropping the class. AS?		stal Menduz
1. Solve for $x$ in the equation $3(x+4) = k(x-2).$ $3 \times +12 = k(x-2).$	c = (12+2K)	2. Multiply out and simplify. (14 $x$ )(1		wer. 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
3. Put over a common denominator and simplify. $2x + 3,  3x + 2,  5$	4.1-9	4. What is 25% of 4/3 of 12?		
5. Calculate $ \begin{array}{c}                                     $	)-1)2	6. A car travels at 50 mph for rest of the journey. The length How many hours did the end of the following the second of the sec	gth of the journ	ney is 270 miles.
3x - 5y = -2 $x + y = 10$	$x = \langle \phi \rangle$ $y = \langle \phi \rangle$	8. An entrepreneur bought 7 to She sold half the apples at sold another ton for \$150. The per ton. How much profit to \$200 x 32 + 120 x 32 + 12	t a price of \$20 The remainder	00 per ton. She
9. What is the area of the shade	d region?	10. If I earn \$200,000 and pay  of what I earn do I keep?	\$80,000 in tax	, what percentage
$ \begin{array}{c} \downarrow \\ 3 \text{ meters} \end{array} $	square meters	200,000 200,000 120,000 120,000 120,000 120,000		%

Put your final answers in the

Score En 10

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- 1. Solve for x in the equation  $x = -\frac{7(x+b)}{3-x}$  3(x+4) = k(x-2).  $3x+12 = x \times -\frac{7}{2}$   $3x-12 = x \times -\frac{7}{2}$   $x = \frac{(-\frac{7}{2})(-\frac{7}{2})}{(\frac{5}{2}-\frac{12}{2})}$   $x = \frac{(-\frac{7}{2})(-\frac{7}{2})}{(\frac{5}{2}-\frac{12}{2})}$
- 2. Multiply out and simplify. Check your answer.  $(1+x)(1-2x+x^2) \qquad (1+x)^2 + x^2 + x^3$

3. Put over a common denominator and simplify.

y.  $\frac{x+3}{3} = \frac{3x+2}{5}$ 

- 4. What is 25% of 4/3 of 12?

  4 1 12 48

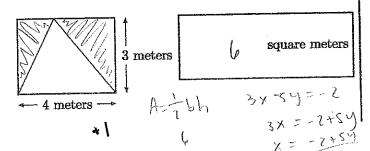
  4 1 16
- 5. Calculate 20  $\left(\frac{4}{17}, \frac{2}{17}\right)^{-1}$   $\left(16 \left(\frac{1}{3} \frac{1}{4}\right)^{-1}\right)^{2}$   $\left(16 \left(\frac{1}{17}\right)^{-1}\right)^{2}$   $\left(16 + \frac{1}{17}\right)^{2}$   $\left(16 + \frac{1}{17}\right)^{2}$
- 6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

150 270 -150 5 hours

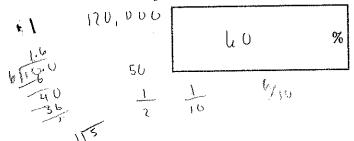
- 8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

3.5 200 = 700 **\$** 1100 1 150 = 950 2.5 100 = 250

9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



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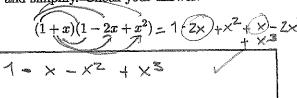
If you score 4-7, seek help NOW: maybe enroll in CLAS?

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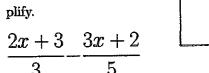
1. Solve for x in the equation

	- 12 - 2 K
3(x+4) = k(x-2).	x = S - K
3x +12 = Kx -2K	4
3x - Kx = -12 - 2K	Cair 1/1/2 etnantitu

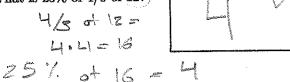
2. Multiply out and simplify. Check your answer.

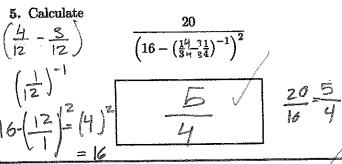


3. Put over a common denominator and simplify.

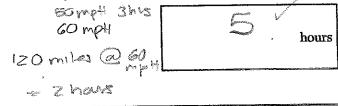


4. What is 25% of 4/3 of 12? 4/4 04 12=





6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



7. Solve for x and y

$$3x - 5y = -2$$

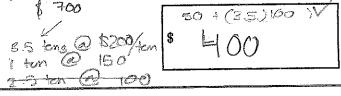
$$+ 5x + 5y = 30$$

$$8x - 4y = 4$$

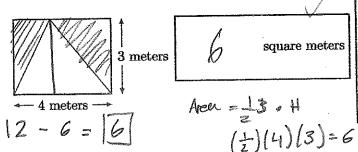
$$y = 4$$

$$6 + 4y = 10$$

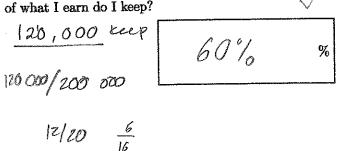
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?



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Math 34A Winter 2021	Put your final	answers in	the			7
Entrance Quiz				Score	2/10	
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Scoring: A question is eigher completed on this test, you if you score 4-7, seek help NOW: making you score 8-10, congratulations! You	sely correct (1 points should consider daybe enroll in CLA	nt) or wrong ropping the AS?				
$\chi$ . Solve for $x$ in the equation		Multiply	out and simplify.	Check your ans	wer.	
3(x+4) = k(x-2). $x =$			(1 +\x)\(1	$-2x+x^2$		
②Put over a common denominator and simplify. $5\left(\frac{2x+3}{3}\right) - \frac{3x+2}{5}\binom{3}{3}$	(x+2	What is:	25% of 4/3 of 12?  -75 \[ \frac{75}{12} \]  4\[ \frac{3}{12} \]  9	2519.9	(c	
Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$	2	rest of th How man	avels at 50 mph for ne journey. The len ny hours did the en - 150 120	igth of the jour	ney is 270 mil	es.
(7) Solve for $x$ and $y$ $3x - 5y = -2$ $5y^{2} - 2  x + y = 10$ $45y  y = 10$ $45y  3  -245y  4y = 10.3$ $45y  3  -245y  4y = 10.3$ $45y  3  -245y  4y = 10.3$	4 intry = 30	She sold sold ano	epreneur bought 7: I half the apples a ther ton for \$150. How much profit  ***total 3-5 4.5	t a price of \$20 The remainder	00 per ton. S	She
(3) What is the area of the shaded regi	ion?		n \$200,000 and pay		, what percen	tage
3 meters 0  3 meters 1 W  50 = 12	square meters	120,00 - 30,00	t I earn do I keep?	.40	40	%
**						

Sa=12

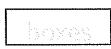
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Math 34A Winter 2021 Entrance Quiz
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Scoring: A question is eiff you score under 4 on the Iff you score 4–7, seek her Iff you score 8–10, congrature of the score s

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Scoring: A question is eigher completely correct (1 points of you score under 4 on this test, you should consider drug from the score 4–7, seek help NOW: maybe enroll in CLA of you score 8–10, congratulations! You are ready for May	opping the class. S?
1. Solve for $x$ in the equation $3(x+4) = k(x-2).$ 34 • 12 • $\angle x$ - 21.	Multiply out and simplify. Check your answer. $(1+x)(1-2x+x^2) - x - x^2 \cdot x^3$ $(1-x-x^2 \cdot x^3)$
3. Put over a common denominator and simplify. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4. What is 25% of 4/3 of 12? $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
5. Calculate $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2} = \frac{4}{12} - \frac{3}{12}$	6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?  100 3: 150 mi  270 - 150: 120 5 hours  2 130: 5
7. Solve for $x$ and $y$ $3x - 5y = -2$ $x + y = 10$ $3x - 5y = -2$ $5y = 5 \cdot 2$ $x = 4.8$ $y = 5 \cdot 2$ $x = 5y - 2$	8. An entrepreneur bought 7 tons of apples for \$100 per ton.  She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?  3.5 · 250 · 150 · 150  \$100 \$100 \$100 \$100 \$100 \$100 \$100
9. What is the area of the shaded region?  square meters  4 meters  (?)	10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?  200,000  80,000  75.595  8120  2.405  2.405  95.595

Put your final answers in the

Score

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Score

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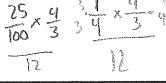
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1	4	 _:T:C	/ Ibaaala	

1. Solve for x in the equation  $x = \frac{2k-12}{3+k}$ 3(x+4) = k(x-2).  $x = \frac{-2(x-1)}{3+k}$ 3x+12=Kx-2K  $\times (3x+kx) -2k-12$ 3. Put over a common +1

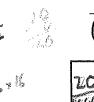
2. Multiply out and simplify. Check your answer.  $\widehat{(1+x)}(1-2x+x^2)$   $\left|-2x+x^2+x-2x^2+x^3\right|$ 

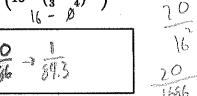
DA-15-6x denominator and simplify.  $\frac{10x+15}{15} = \frac{9x+6}{15}$  $\frac{5}{5}$ ,  $\frac{2x+3}{3}$   $\frac{3x+2}{5}$ ,  $\frac{3}{3}$ 

4. What is 25% of 4/3 of 12?



5. Calculate





6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?

hours

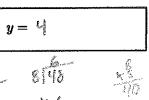
7. Solve for x and y

$$3x - 5y = -2$$

$$5(x + y = 10)$$

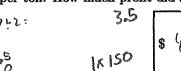
$$3x - 5y = -2$$

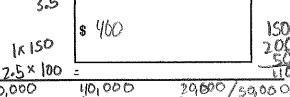
$$3x - 5y = -2$$



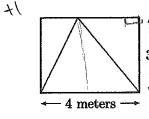
700 8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make? 3.5 · 200 = 7(0)

10. If I earn \$200,000 and pay \$80,000 in tax, what percentage





9. What is the area of the shaded region?



square meters 3 meters

200,000 x 100 =

of what I earn do I keep?

Low= 403 = 125

720000

80,000