Put your final answers in the

lacazetta

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.

1. Solve for x in the equation

3(x+4) = k(x-2).3x+12 = ky-3k 3x+12 = ky-3k-14 3x-ky=-3k-143. Put over a common

2. Multiply out and simplify. Check your answer.

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

X3-X3-X+1

- denominator and sim-
- $\underbrace{\frac{0x+15}{15}}_{\frac{7}{5}} \underbrace{\frac{9x+6}{15}}_{\frac{7}{5}} \underbrace{\frac{2x+3}{3}}_{\frac{3}{5}} \underbrace{\frac{3x+2}{5}}_{\frac{3}{3}}.\frac{3}{3}$

4. What is 25% of 4/3 of 12? 0.25 01 4 = 4

13 of D=4 48

16-0.25:4

X 19 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?

50-72/50 mi hours 120 let

7. Solve for x and y

3x - 50 + 5y = -2 3x - 50 + 5y = 3x + y = 10 4x = 44

X=6 6+ 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?

-700+700+150+150

aw-35-20 745-25 1W = 250 4/111

\$\sqrt{9}\$. What is the area of the shaded region?

級

3 meters

square meters STATE OF THE PARTY OF THE PARTY

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

60

%

4 meters 12-6=6



Score

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.

530417-5

Justin Klugar

Solve for x in the equation

$$3(x+4) = k(x-2). \qquad x = 3x + 12^{-1} |x-k|^{2}$$

2. Multiply out and simplify. Check your answer.

$$\frac{\sqrt{(1+x)(1-2x+x^2)}}{\sqrt{x^3-x^2-x^4}}$$

3. Put over a common denominator and simplify.

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

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

4

5. Calculate

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

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

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

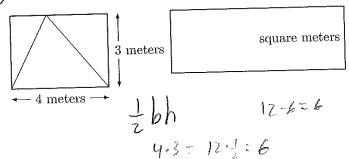
$$3x - 5y = -2$$
$$x + y = 10$$

$$y = \mathcal{V}$$

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

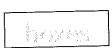
What is the area of the shaded region?



10. If I earn \$200,900 and pay \$80,900 in tax, what percentage of what I earn do I keep?



Put your final answers in the



Donovan Toney
5292206 Score 9/10

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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.

 \searrow Solve for x in the equation

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

$$x = 7$$

2. Multiply out and simplify. Check your answer.

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

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

Put over a common denominator and simplify.

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

- X+9 15
- 4. What is 25% of 4/3 of 12?

4

5. Calculate

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

1.25

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

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

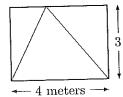
 $x = \bigcup \rho$

$$y = \angle$$

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 profit \$1100 in total sales

9. What is the area of the shaded region?



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?

Veronica Acevedo

Math 34A Winter 2021 Entrance Quiz

Put your final answers in the Devm: 6553622

Score

No calculators

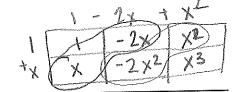
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If you score 4–7, seek help NOW: maybe enroll in CLAS?

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



(Solve for x in the equation

$$3(x+4) = k(x-2).$$
 $x = \frac{12 + 2 \times 1}{2 - 3}$

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

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?

What is 25% of 4/3 of
$$\frac{4}{3}$$
 \times $\frac{124}{3}$ $\frac{16}{3}$

4

3x + 2

5. Calculate

2x + 3

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

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?

nours

2+3=5

(7) Solve for x and y

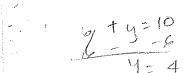
$$3(10-7) - 5 3x - 5y = -2$$

$$x + y = 10$$

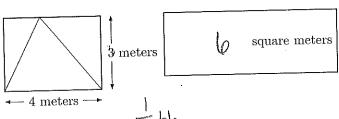
$$x = \emptyset$$

1=(A)(3) = 1/(12)=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?



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?



60 %

120,000 ~ 60%



Ajani Tyehimba

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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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

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

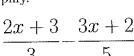
$$x = \frac{64k}{2k}$$

2. Multiply out and simplify. Check your answer.

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

x-x-x2+

3. Put over a common denominator and simplify.



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

L

5. Calculate

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

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

7. Solve for x and y

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

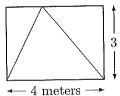
$$x + y = 10$$

$$y = \chi + 10$$

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?

\$ 400

9. What is the area of the shaded region?



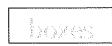
3 meters

square meters

V

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 10

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

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

x=12+2K (Ue-B) 2. Multiply out and simplify. Check your answer.

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

1-x-x2+x3

3. Put over a common denominator and simplify.

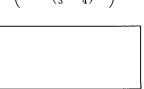
 $\frac{2x+3}{3} - \frac{3x+2}{5}$



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

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?

5

hours

7. Solve for x and y

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

x + y = 10

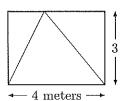
x = 10-0 4

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?

s 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?



60



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. Junior Allamout of

CHOUNTS

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-x2+X3

3. Put over a common denominator and simplify.

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

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?

5 hours

7. Solve for x and y

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

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?

s 400

9. What is the area of the shaded region?

4 meters

3 meters

mod 1 square meters 10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

Score

10

No calculators

provided on this page.

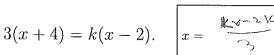
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If you score 8-10, congratulations! You are ready for Math 34A.

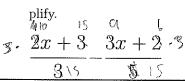
1. Solve for x in the equation

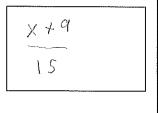


2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and sim-





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

4

5. Calculate

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

x =

y =



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?



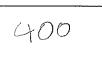
hours

7. Solve for x and y

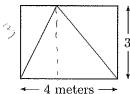
$$3x - 5y = -2$$

$$x + y = 10$$

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?



600

Put your final answers in the

15030051

Score 10

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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

$$3(x+4) = k(x-2).$$
 $x = \frac{-6}{(3-4)}$

2. Multiply out and simplify. Check your answer.

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

1-X-x2+x3

3. Put over a common denominator and simplify.

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

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



5. Calculate

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

20 = 54

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

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

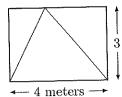
x = 6

$$y = \downarrow \downarrow$$

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?

s 400

9. What is the area of the shaded region?



3 meters

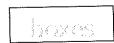
6

square meters

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



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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) = k(x-2).

 $x = \frac{-2K-12}{3-K}$ Solved x on left nor night

2. Multiply out and simplify. Check your answer.

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

1-X-X2+X3

3. Put over a common denominator and simplify.

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

x+9 15 4. What is 25% of 4/3 of 12?

4

5. Calculate

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

<u>5</u>

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 hours

7. Solve for x and y

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

 $y = \mathbf{4}$

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

4 meters

(0. s

square meters

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

60



6234348

Score



No calculators

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boxes

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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

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

$$x = \frac{-\lambda K - 1\lambda}{3 - K}$$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

- ×+9
- 4. What is 25% of 4/3 of 12?

3.5

5. Calculate

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

$$\frac{20}{16} = \frac{5}{4}$$

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?

5 hours

7. Solve for x and y

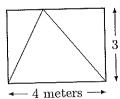
$$3x - 5y = -2$$
$$x + y = 10$$

x = 6

- 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?

s 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?

60



Score



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They Tolland 5976394

1. Solve for x in the equation

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

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

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

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

5/4

5

hours

7. Solve for x and y

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

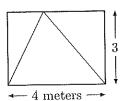
$$x = \mathcal{G}$$

$$y = 4$$

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

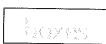
9. What is the area of the shaded region?



3 meters

6 square meters

60%



Score 10

No calculators

provided on this page.

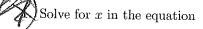
Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

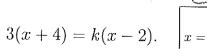
If you score under 4 on this test, you should consider dropping the class.

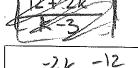
If you score 4–7, seek help **NOW**: maybe enroll in CLAS?

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

outside of boxes wears I'm doing corrections







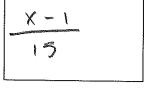
2. Multiply out and simplify. Check your answer.

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

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

3. Put over a common denominator and simplify.

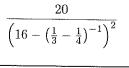
$$\frac{2x+3}{3} - \frac{3x+2}{5}$$



What is 25% of 4/3 of 12? $\frac{1}{4} \times \frac{4}{3} = \frac{4}{12} = \frac{1}{3}$



Calculate



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

5 hours

7. Solve for x and y

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

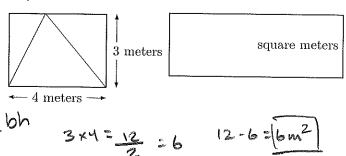
$$x = 6$$

$$y = 4$$

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?

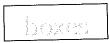
\$ 400

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% %



Score

10

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.

Laura

Solano

1. Solve for x in the equation

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

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

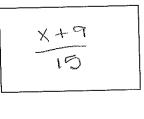
2. Multiply out and simplify. Check your answer.

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

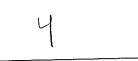
$$x^{3}-x^{2}-x-1$$

3. Put over a common denominator and simplify.

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



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?

5 hours

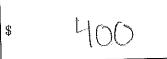
7. Solve for x and y

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

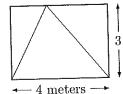
$$y = \qquad \downarrow$$

0

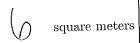
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



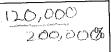
9. What is the area of the shaded region?



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



Molly Parcival 499286-3 Score 10

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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

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

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

- 10x+15 9x+4
- 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 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

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

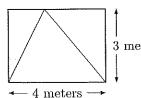
$$x + y = 10$$

$$x = \bigcup$$

$$y = 4$$

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?

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?

> (10 %

Put your final answers in the



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

1. Solve for x in the equation

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

2. Multiply out and simplify. Check your answer.

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

1-x-x3 + x3

3. Put over a common denominator and simplify.

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

-60× + 315

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

0,3

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 = -2x + y = 10

 $x = \begin{pmatrix} 0 \end{pmatrix}$

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?

\$ 105,150

9. What is the area of the shaded region?

 $\begin{array}{c|c} & \uparrow \\ 3 \\ \downarrow \\ & 4 \text{ meters} \end{array}$

3 meters

2 square meters

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

60

Score



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Heydi Zepeda

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

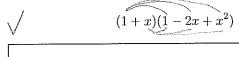
Perm: 5297932

1. Solve for x in the equation

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

$$x = \frac{(-2k - 12)}{(2-k)}$$

2. Multiply out and simplify. Check your answer.



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

4+4+4 +4

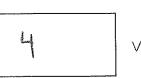
3. Put over a common denominator and simplify.

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

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

$$\frac{1}{9}$$
 $\frac{25}{100} = \frac{x}{16}$

$$\frac{1}{4} = \frac{1}{100} \times \frac{1}{4} = \frac{1}{100} \times \frac{1}{100} = \frac{1}{100} \times \frac{1}{100$$



5. Calculate



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

`	,
-2001/	
	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

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

$$x = \mathcal{C}$$

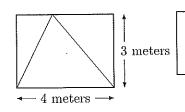
$$y = 1$$

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?



square meters

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



60 %

 $\frac{12}{20} = \frac{\times}{100}$

20x = 12(000)

Plyse !	Havima	WA
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Put your final answers in the



Score

10

No calculators

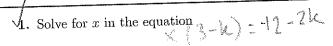
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If, you score 8-10, congratulations! You are ready for Math 34A.



2. Multiply out and simplify. Check your answer.

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

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

1-x-x2-1x3

3. Put over a common

denominator and sim-

plify.

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?

Shiph - 3hr =

160miles

120 miles = 60 mph x

hours

24rs + 3hrs

 $\sqrt{\pi}$. Solve for x and y

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

$$x + y = 10$$

x+y=10 $3 \times -5 (10-x) = 7$ 3x-50+5x=-2 5x=48 x= 4

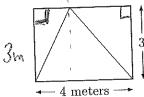
y = 1

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)+150+

(25×/00)=100

 \times 9. What is the area of the shaded region?



3 meters

square meters

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

200,000

9K106=40

32 +42 = 22 (3×4) = 6

100-40=60

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X+9 TE

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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

$$3(x+4) = k(x-2).$$
 $x = \frac{12+24}{4-3}$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

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 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

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

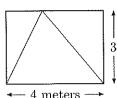
$$x + y = 10$$

$$y = 4$$

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

square meters 6

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



- 4 meters



Maamoon	Salmon
4701785	

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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.

 \mathbf{x} . Solve for x in the equation

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

$$3 \times + 1 \lambda = kx - \lambda k$$

$$3 \times = kx - \lambda k - 1 \lambda$$

$$\times = kx - \lambda k - 1 \lambda$$

$$\times = kx - \lambda k - 1 \lambda$$

$$\times = kx - \lambda k - 1 \lambda$$
3. Put over a common

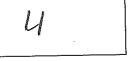
2. Multiply out and simplify. Check your answer.

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

denominator and simplify. Were on back

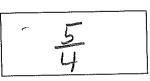
denominator and simplify. We can back
$$\frac{2x+3}{3} - \frac{3x+2}{5}$$

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?

hours

7. Solve for x and y

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

$$x + y = 10$$

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

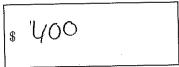
$$3x + 3y = -30$$

$$3x + 3y = -3$$

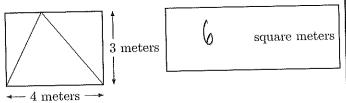
$$x = \mathcal{L}$$

$$y = 4$$

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?



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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Carston Little 5147616

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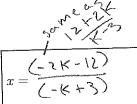
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If you score 4–7, seek help NOW: maybe enroll in CLAS?

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

1. Solve for x in the equation

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



2. Multiply out and simplify. Check your answer.

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

1-x-x2+X3

3. Put over a common denominator and simplify.

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

- 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 = -2x + y = 10

y = U

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

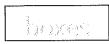
9. What is the area of the shaded region?

- 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?



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Paulina Deoura

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5095377

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).

$$x = \frac{12 + 2U}{U - 3}$$

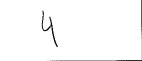
2. Multiply out and simplify. Check your answer.

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

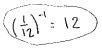
Put over a common denominator and simplify.

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

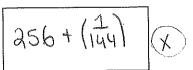
- x-9
- 4. What is 25% of 4/3 of 12?



5. Calculate



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



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?



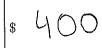
7. Solve for x and y

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

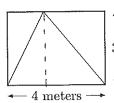
$$x = 6$$

$$y = \bigcup$$

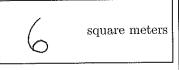
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?



9. What is the area of the shaded region?

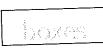


3 meters



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





Score

10

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

1. Solve for x in the equation

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

$$x = (2X - h^2)/(3x - KX)$$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

- X+9 15
- 4. What is 25% of 4/3 of 12?



5. Calculate

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

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?

hours hours

7. Solve for x and y

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

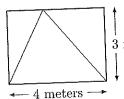
x + y = 10

 $x = \mathcal{Q}$

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

 $0 \,\mathrm{m}^2$

square meters

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

UD %

Put your final answers in the



6540347 Score 10

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

1. Solve for x in the equation

$$3(x+4) = k(x-2)$$
. $x = 3x + 12 = 4x + 14$

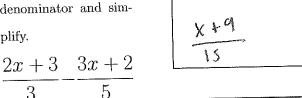
2. Multiply out and simplify. Check your answer.

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

Ч

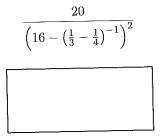
Ilan Archaio

3. Put over a common denominator and simplify.



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

5. Calculate



 ${f 6.}$ 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

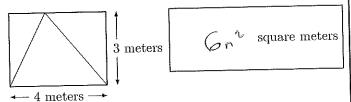
$$3x - 5y = -2$$
$$x + y = 10$$

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?

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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hozat.

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

2. Multiply out and simplify. Check your answer.

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

 $\left| - \times - \times^2 + \times^3 \right|$

3. Put over a common denominator and simplify.

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

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 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 = -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?

\$ 450

9. What is the area of the shaded region?

4 meters

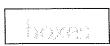
3 meters

square meters 6

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

(%)

Math	34A	Winter	2021
Entra	ace (Quiz	



Ivan Kowalyk Score 6/10

No calculators

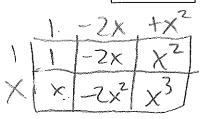
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Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

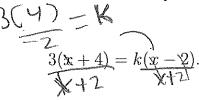
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1. Solve for x in the equation



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

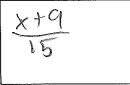
2. Multiply out and simplify. Check your answer.

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

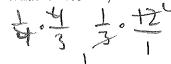
1-4x3+X6

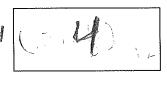
3. Put over a common denominator and simplify.

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

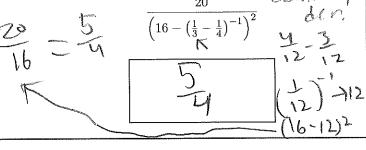


4. What is 25% of 4/3 of 12?





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

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

$$x + y = 10$$

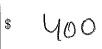
$$- \sqrt{D}$$

$$x = \bigcup$$

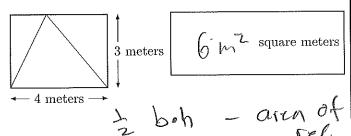
$$y = \bigvee$$

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?

T00 706 850



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?





No calculators

lacazena.

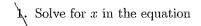
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2. Multiply out and simplify. Check your answer.

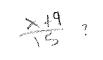
$$(1+x)(1-2x+x^2)$$

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

$$x = -$$

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

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

(16+ 8)2 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?

5 hours

7. Solve for x and y

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

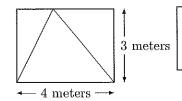
$$x = \emptyset$$

$$y = \bigcup$$

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?

s 400

Q. What is the area of the shaded region?



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

% O₀

Put your final answers in the

6160675

Score 10

No calculators

provided on this page.

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1. Solve for x in the equation

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

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.

2x + 3, 3x + 2

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

5. Calculate

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

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hours

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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?

michelle Lezama

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1. Solve for x in the equation

$$3(x+4) = k(x-2).$$
 $x = \frac{u}{2x} - 14 / \frac{12 + 24}{K-5}$

$$x = \frac{u}{2x} - 14 \sqrt{\frac{12 + 2W}{K - 3}}$$

2. Multiply out and simplify. Check your answer.

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

1+x+2x+x=+x2

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?



5. Calculate

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

20 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?

5 hours

7. Solve for x and y

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

$$x + y = 10$$

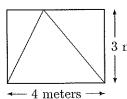
$$x = \frac{x + 5y}{3}$$

$$y = \frac{1}{5}$$

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\$ 400

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



3 meters

5 √ square meters

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

100,000 · 100 %

Nather Scaway

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Score 9 / 10

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1. Solve for x in the equation

3(x+4) = k(x-2).	x = 12+2H	
$3(x+4)=\kappa(x-2).$	h-3	
3x : 11x-2H-13		

2. Multiply out and simplify. Check your answer.

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

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

3. Put over a common denominator and simplify.

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

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



5. Calculate

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

5/4

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5 hours

7. Solve for x and y

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

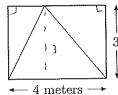
$$x = 6$$

$$y \equiv \mathcal{U}$$

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?

\$ 4,00

9. What is the area of the shaded region?

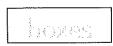


3 meters

6 square meters

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

Daniel Marin	
5977046	
Math 34A Winter 20)21
Entrance Quiz	



Score

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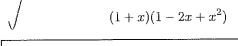
If you score 8-10, congratulations! You are ready for Math 34A.

1. Solve for x in the equation

$$3(x+4) = k(x-2).$$
 $x = \frac{15}{2 k} + \frac{1}{2}$

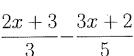
$$x = \frac{15}{2K} + \frac{1}{2}$$

2. Multiply out and simplify. Check your answer.



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

3. Put over a common denominator and simplify.



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



5. Calculate



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



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

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

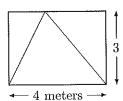
x + y = 10



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?

001

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

Lucas Gotto 6265516_

Score 10/10

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1. Solve for x in the equation

3(x+4) = k(x-2). $x = -\frac{k2+12}{3-k}$

2. Multiply out and simplify. Check your answer.

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

x3-x2-x+1

3. Put over a common denominator and simplify.

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

- ×+9
- **4.** What is 25% of 4/3 of 12?

4

5. Calculate

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

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?

5 hours

7. Solve for x and y

3x - 5y = -2

x + y = 10

x = 6

y = 4

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s **400**

9. What is the area of the shaded region?

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?

_% (کو

E114 Sven, son 6024814

Score

8 /10

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

 $\mathbf{1}$. Solve for x in the equation

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

$$x = \frac{6 - 16}{-16}$$

2. Multiply out and simplify. Check your answer.

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

1-x+x2+x3

73. Put over a common denominator and simplify.

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

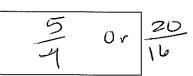


4. What is 25% of 4/3 of 12?



√5. Calculate

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



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

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

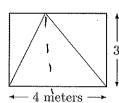
$$x + y = 10$$

$$y = \mathcal{U}$$

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?

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 $\sqrt{9}$. What is the area of the shaded region?



3 meters

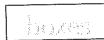


square meters

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

60

Put your final answers in the



Score



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Nolve for x in the equation

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

$$x = 4$$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and sim-5×+5 plify.

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

¥. What is 25% of 4/3 of 12?



な. Calculate

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



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

 \sqrt{x} . Solve for x and y

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

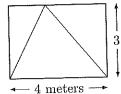
$$x =$$

$$y =$$

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?



What is the area of the shaded region?



3 meters

square meters

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



No calculators

Put your final answers in the



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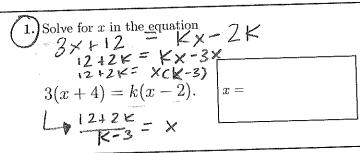
paniela Barajas Score 5844980

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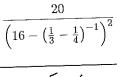


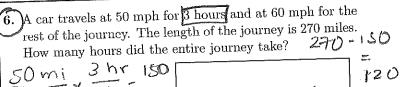
2. Multiply out and simplify. Check your answer.

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

4. What is 25% of 4/3 of 12? $\frac{12}{3} \times \frac{4}{3} = \frac{48}{2} \times \frac{1}{4} = \frac{12}{3} \times \frac{1}{4} = \frac{12}{3$

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





7. Solve for
$$x$$
 and y

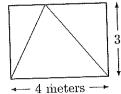
$$3x - 5y = -2$$

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$$x = \bigcirc$$

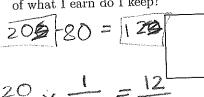
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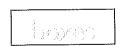


3 meters

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



Put your final answers in the



Score 10

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 $x =$

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

1 + x - 2x - x2 + x3

3. Put over a common denominator and simplify.

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

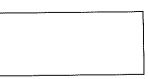
×+9

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

4

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5 hours

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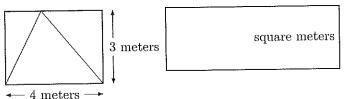
x =

y =

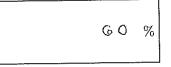
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s unona 400

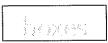
9. What is the area of the shaded region?



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



Put your final answers in the



Alex Cano 5656376 Score

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

1. Solve for x in the equation

$$3(x+4) = k(x-2)$$
. $x = \frac{-10}{3-K}$

2. Multiply out and simplify. Check your answer.

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

$$\times \begin{bmatrix} 3 \\ -\times \end{bmatrix} \times + \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

+1 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?

$$\frac{3}{4} = 0.75$$

5. Calculate

+1

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

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

4

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

$$x + y = 10$$

x = 6

$$y = \mathsf{U}$$

- 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?

+(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?

$$100\left(\frac{120,000}{200,000}\right) = 60 \%$$

boxes

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.

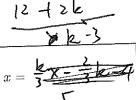
If you score 4–7, seek help NOW: maybe enroll in CLAS?

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

Esther Wang

4761847

(1)Solve for x in the equation

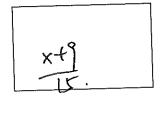


2. Multiply out and simplify. Check your answer.

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

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

Put over a common denominator and simplify. $2x + 3 \quad 3x + 2$



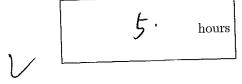
4. What is 25% of 4/3 of 12?



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

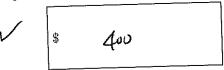
$$3x - 5y = -2$$

$$x + y = 10$$

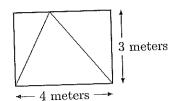
$$x = 6$$

$$y = \mathcal{L}_{f}$$

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?



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 (Quiz	

Put your final answers in the



10 8822277

Hadeel Eljamari

Score

No calculators

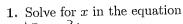
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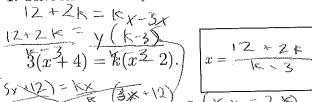
Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

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?

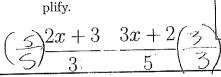
If you score 8-10, congratulations! You are ready for Math 34A.





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

3. Put over a common denominator and sim-

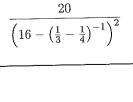


4. What is 25% of 4/3 of 12?





5. Calculate



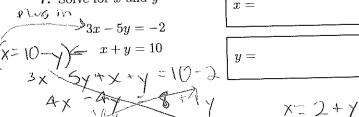
6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take?



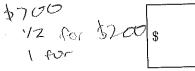




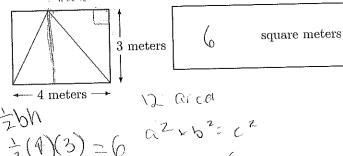
7. Solve for x and y



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 WILLIG



10 (= 6

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



Claire Rambeu 6596795 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.

1. Solve for x in the equation

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

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

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

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

 $x = \langle y \rangle$

U

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?

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?

> (0)%

Put your final answers in the



5051461 Score 10 10

Aidan Lee

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

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

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

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

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

3.) Put over a common denominator and simplify.

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

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



(5) Calculate

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

1.25

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

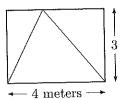
 $\langle 7 \rangle$ Solve for x and y

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

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

6 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 10

No calculators

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MAKES.

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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

12+2K K-3

3(x+4) = k(x-2). $x = \frac{14}{x-2}$

 $x = \frac{14}{K-3}$

2. Multiply out and simplify. Check your answer.

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

1-x-x2+x3

3. Put over a common denominator and simplify.

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

<u>x+3</u> 5 4. What is 25% of 4/3 of 12?

4

5. Calculate

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

36=54

(10 - (3 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?

5hrs hours

7. Solve for x and y

3x - 5y = -2

x + y = 10

 $x = \int_{C}$

 $y = \bigcup$

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 profit

9. What is the area of the shaded region?

4 meters

1 3 meters

square meters

6m2

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

120,000

Put your final answers in the



No calculators

140000000

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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.

 \circ 1. Solve for x in the equation

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

2. Multiply out and simplify. Check your answer.

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

`3. Put over a common denominator and simplify.

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

X+9

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

Ч

, 5. Calculate

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

20 20 7.7 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?

5 hours

7. Solve for x and y

3x - 5y = -2

x + y = 10

 $x = \sqrt{\varphi}$

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?

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?

Put your final answers in the



Jasmine Baltower 510918-6 Score 7/10

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.

 χ . Solve for x in the equation

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

$$x = \frac{3 \times 114}{14}$$

2. Multiply out and simplify. Check your answer.

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

%. Put over a common denominator and simplify.

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

-1x+1

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

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

$$x + y = 10$$

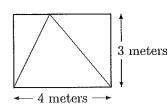
$$x = 0$$

$$y = 4$$

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?

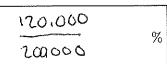
\$ 400

9. What is the area of the shaded region?



6 square meters

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	34 A	Winter				r final	answers	in	$_{ m the}$
Entrai	nce	Quiz	²⁰²¹ Perm 6382	a a a	"				
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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.

1. Solve for x in the equation

2. Multiply out and simplify. Check your answer.

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

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

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

1-X-X2+ X3

3. Put over a common denominator and simplify.

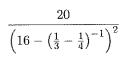
plify.
$$2x + 3 \quad 3x + 2$$

$$- \times + 5$$

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

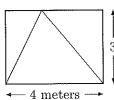
$$3x - 5y = -2$$

x + y = 10

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

square meters

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

60

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.

Samuel Esperace 414/13

1. Solve for x in the equation

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

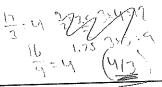
$$x = \frac{111111}{3-11}$$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and sim-(record)

plify. $2x + 3 \quad 3x + 2$ **4.** What is 25% of 4/3 of 12?



Y +215

5. Calculate

(1000) $\overline{\left(16-\left(\frac{1}{3}-\frac{7}{4}\right)^{-1}\right)^2}$



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

120

Dec + ECCI 150 +

7. Solve for x and y

3x - 5y = -2

x + y = 10

X + C, = 10

x = 1

 $y = {}^{\mbox{\tiny V}}$

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? 1166

3,5 lev 100 BOO 150 MEU

MUG

766 Mec.

What is the area of the shaded region?

- 4 meters

3 meters

square meters 17

440

(c: 12

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

> 266,00 go cec

60

%

120,000

ta,uu

50

Anushka Ghosh, 7424708

Math 34A Winter 2021 Entrance Quiz

Put your final answers in the

boxes

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

3(x+4) = k(x-2).3x+12= Kx - 2K $3 \times - K \times = -2k \cdot 12$ $\times (3 - K) = -2k \cdot 12$ 3. Put over a common 2. Multiply out and simplify. Check your answer. $(1+x)(1-2x+x^2)$ $|-2x+x^2-2x^2+x^3|$

x3-x2-x+1

4

denominator and sim-

 $10 \times +15$ plify.

- 4. What is 25% of 4/3 of 12? $\frac{12}{1} \times \frac{4}{3} = \frac{48}{3} \times \frac{1}{4}$ = 48 = 4

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

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?

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

270 - 150 = 120 120 = 60 = 2hrs. hours

7. Solve for x and y

3x - 5y = -2x + y = 10x = 4+10 x = 6

- 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

- 3(10-4)-54=2 x + 4=10 30-34-54=2 x=69. What is the area of the shaded region?

3 T=12m2 4 meters

3 meters

6 square meters

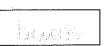
10. If I earn \$200,000 and pay \$80,000 in tax, what percentage of what I earn do I keep?

60 %

\$ 700

1.5 + 4.5

Put your final answers in the



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.

1. Solve for x in the equation

3(x+4) = k(x-2).7X+12= KX-2K 3K-KX=-12-2R X=-12-2R X(3-K) 3-K (3-K) 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.

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

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

12, 4 = 16.25=4

Calculate

FRE FUNGOL Orbrof 6 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-

50 m/K-3/ = 150 min 270 m +50m = 120 = ch

hours

36+241 -15h

7. Solve for x and y

019114 (0St=\$700

3 5 HONS (200) 1760

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(10-7)-57=-2

9. What is the area of the shaded region?

4-3= 12-6=

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?

8 - 4 = 2-165

60 %

100-90: 6090

Put your final answers in the 6036131

EROAKY)

Score

10

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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.

 λ Solve for x in the equation

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

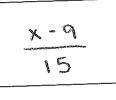
$$x = \frac{\kappa + \psi}{3}$$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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



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?

hours

7. Solve for x and y

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

$$x + y = 10$$

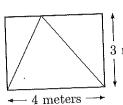
$$x = \bigcirc$$

$$y = U$$

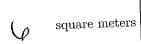
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

400

9. What is the area of the shaded region?



3 meters



 ${f 10.}\,$ 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

19692663

Score 10

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

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

2. Multiply out and simplify. Check your answer.

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

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

3. Put over a common denominator and simplify.

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

- $\frac{12}{\times + 6}$
- 4. What is 25% of 4/3 of 12?

4

5. Calculate

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

<u>5</u>

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

y = 4

6

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?

\$ 400

9. What is the area of the shaded region?

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?

Brooke Lyan 3857836

Math 34A Winter 2021 Entrance Quiz

Put your final answers in the

1000000

Score $\left| \begin{array}{c|c} q \end{array} \right|_{10}$

No calculators

provided on this page.

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

1. Solve for x in the equation

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

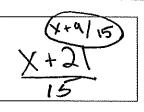
$$x = \frac{(K-2)}{2K+12}$$

2. Multiply out and simplify. Check your answer.

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

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

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

5 m 1.25

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

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

$$x + y = 10$$

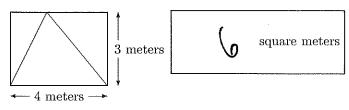
$$y = 4$$

 $x = \begin{pmatrix} 0 \end{pmatrix}$

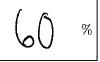
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100 per ton. How much profit did she make?

s ALXXX 400

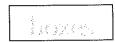
9. What is the area of the shaded region?



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



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

$$3(x+4) = k(x-2).$$
 $x = \frac{12 + 24}{16 - 3}$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

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?

5 hours

7. Solve for x and y

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

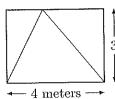
 $x = \bigcirc$

$$y = \bigsqcup$$

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

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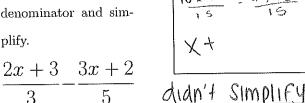
$$x = \frac{(-2 \times -12)}{(3 - \times)}$$

2. Multiply out and simplify. Check your answer.

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

x3-x2-x+1

3. Put over a common denominator and simplify.



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



5. Calculate

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

- 2 = 14
- 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

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

0

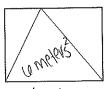
$$y = \bigcup$$

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?

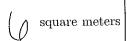
10/4 464 400

\$ 350

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?

> % 60

4 meters

Put your final answers in the

Sichena Ciana

9695222

Score

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

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

2. Multiply out and simplify. Check your answer.

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

(1-2X+X2+ X-)X2+X3) $= 1 - X - x^2 + x^3$

3. Put over a common denominator and simplify.

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

- 10×+15
- 4. What is 25% of 4/3 of 12?

生亡: 3



 $\frac{5. \text{ Calculate}}{(16 - (\frac{1}{12})^{-1})^2}$

16-12

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?

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

7. Solve for x and y

3x - 5y = -2

x + y = 10

3x+3y =30

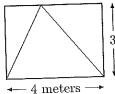
ey = 32

per ton. How much profit did she make? \$ 2.5. 200 = 200 \\$ POD

1.100

(50+250

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?

Entrance Quiz

No calculators

Put your final answers in the



Score

10

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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

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

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

2. Multiply out and simplify. Check your answer.

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

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

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?



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

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

$$x + y = 10$$

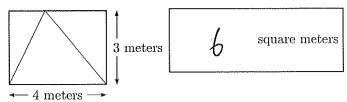
x =

$$y = 4$$

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?



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

10

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

$$3(x+4) = k(x-2).$$
 $x = \frac{-2k + 42}{2 - k}$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and sim-

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

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

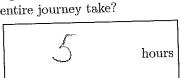


5. Calculate

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

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. V How many hours did the entire journey take?



7. Solve for x and y

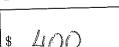
$$3x - 5y = -2$$

$$x + y = 10$$

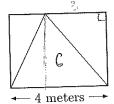
$$x = 6$$

$$y = \mathcal{U}$$

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

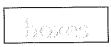
12 - 6

 $S = \frac{1}{2}h \cdot \alpha$

square meters

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

60



Score

10/10

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.

Morgan Johnson 5020847

1. Solve for x in the equation

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

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

 $X \leftarrow 3$ 4. W

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



5. Calculate

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

7.0

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?

5 hours

7. Solve for x and y

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

$$x + y = 10$$

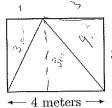
 $x = \langle \rho \rangle$

$$y =$$

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?

s 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?

∞○ %

Put your final answers in the

00/000

Jessica Espinora
631283
Score / 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). $x = -\frac{1}{2}$

2. Multiply out and simplify. Check your answer.

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

 $2x+X^{2}$

3. Put over a common denominator and simplify.

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

- X 9 5
- 4. What is 25% of 4/3 of 12?

3

5. Calculate

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

1257232

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 hrs

hours

7. Solve for x and y

3x - 5y = -2x + 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?

B 400

9. What is the area of the shaded region?

4 meters

3 meters

) squar

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

60

%

120,000

120,000 = 60%

Put your final answers in the

No calculators

provided on this page.

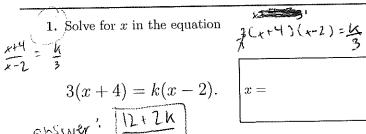
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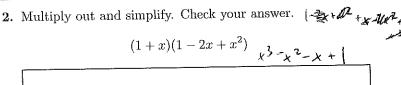
Scoring: A question is eigher completely correct (1 point) or wrong (0 points).

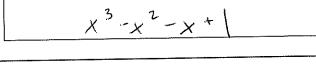
If you score under 4 on this test, you should consider dropping the class.

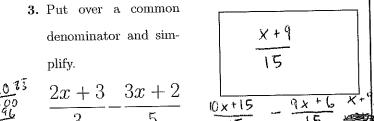
If you score 4-7, seek help NOW: maybe enroll in CLAS?

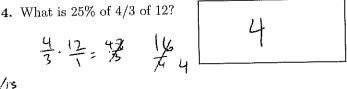
If you score 8–10, congratulations! You are ready for Math 34A.

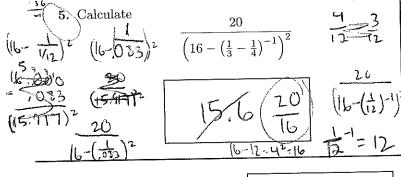




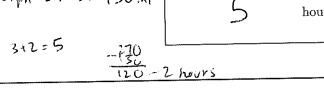




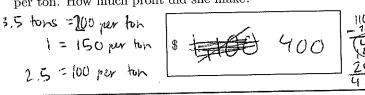




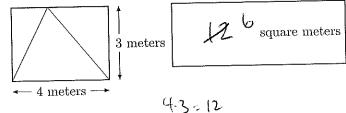
6. A car travels at 50 mph for 3 hours and at 60 mph for the rest of the journey. The length of the journey is 270 miles. How many hours did the entire journey take? hours



- 7. Solve for x and y3x - 5y = -2x + y = 103(10-1)-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 $\frac{4r}{}$ 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? of what I earn do I keep?



$$\frac{200}{\frac{75}{120}} \quad \frac{120}{200} = \frac{120}{100} \quad \frac{120}{$$

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

2. Multiply out and simplify. Check your answer.

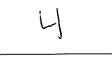
 $(1+x)(1-2x+x^2)$

1-x-x2+x3

3. Put over a common denominator and sim-

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

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



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

 \nearrow Solve for x and y

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?



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 of what I earn do I keep?



Put your final answers in the



Score

No calculators

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Leonardo Bertau SIB 2964

 \checkmark Solve for x in the equation

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

$$x = \frac{\left(-k \cdot \lambda - 1 \cdot \lambda\right)}{\left(\cdot\right) - \left(-k \cdot \lambda\right)}$$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

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?

10

hours

7. Solve for x and y

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

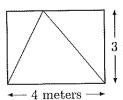
$$x - 0y = -2$$
$$x + y = 10$$

$$y = \bigvee$$

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?

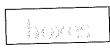


3 meters

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

60

Put your final answers in the



Score

10

No calculators

provided on this page.

Pierce Medosch Myers

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.

617978-2

1. Solve for x in the equation

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

$$x = \frac{2 \, \text{K} \cdot 12}{\text{K} \cdot 3}$$

2. Multiply out and simplify. Check your answer.

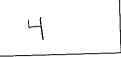
$$(1+x)(1-2x+x^2)$$

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

3. Put over a common denominator and simplify.

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

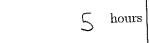
4. What is 25% of 4/3 of 12?



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?



7. Solve for x and y

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

$$x + y = 10$$

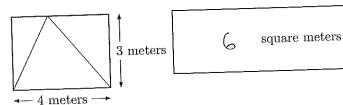
$$x = 6$$

$$y = \bot$$

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?



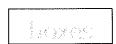
9. What is the area of the shaded region?



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



Put your final answers in the



Score 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.

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

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

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

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

4

5. Calculate

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

20 = 5

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?

 $5_{\rm hours}$

7. Solve for x and y

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

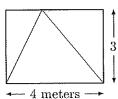
$$x + y = 10$$

 $y = \bot$

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?

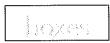


3 meters

(ov 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 10

No calculators

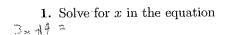
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If you score 8–10, congratulations! You are ready for Math 34A.



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

 $x = 3 \times + 14$

2. Multiply out and simplify. Check your answer.

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

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

denominator and sim-

plify.

 $\frac{1}{5}$) $\frac{2x+3}{315}$ $\frac{3x+2}{15}$ $(\frac{1}{3})$

4,25

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



5. Calculate

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

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 mi 6

7. Solve for x and y

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

$$x + y = 10$$

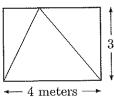
x =

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?

5 M DO

9. What is the area of the shaded region? wxl 4



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?

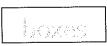
200,000

60 %

80,000 200,000

120 12 6 - 60%

Put your final answers in the



Score



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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.

Melody Hway MATH 34A 5212071

1. Solve for x in the equation

Solve for
$$x$$
 in the equation
$$\frac{3x - kx = -2k - 12}{k(3-k)} = \frac{-2k - 12}{(3-k)}$$

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

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

$$-kx - kx$$

1-1x-1x2 +x3 2. Multiply out and simplify. Check your answer.

$$\chi^{3} - |\chi^{2} - \chi + |$$

10x +15-9x3+Put over a common

15 denominator and simplify.

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

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

$$\frac{1}{4}$$
, $\frac{4}{3}$ = $\frac{4}{12}$, $\frac{12}{1}$ = $\frac{46}{12}$ = $\frac{12}{12}$ = $\frac{12}{2}$ = $\frac{24}{12}$

5. Calculate
$$\frac{4}{3} - \frac{1}{4} + \frac{3}{4}$$

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

$$\left(\frac{1}{6} - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^{2}$$

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

$$\frac{20}{16}$$

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 sold another ton for \$150. The remainder she sold at \$100, 3.5

$$\frac{33}{150}$$
 $\frac{150}{120}$ $\frac{2}{120}$

hours

per ton. How much profit did she make?

100

7. Solve for x and y

30-34-54 = -2

$$x = 6$$

$$y = 4$$

$$y = 4$$

$$y = 4$$

$$y = 4$$

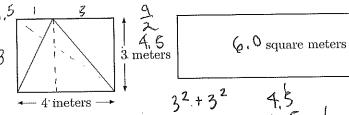
200 1000 000

150

K103.0

700

 $\frac{30-8y=-2}{30}$ 9. What is the area of the shaded region?



10. If I earn \$200,000 and pay \$80,000 in tax, what percentage 700 of what I earn do I keep? 200,000

60 %

100

$$2m^2$$
 $\frac{3}{2}=1.5$

Put your final answers in the



Score

10

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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

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

2. Multiply out and simplify. Check your answer.

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

1-x-x2+x3

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?



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

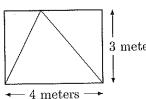
$$3x - 5y = -2$$
$$x + y = 10$$

$$y = 4$$

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?

\$9150

9. What is the area of the shaded region?



3 meters

square meters (0

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

29

\$ () KONGS

Score



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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.

Isabel Ibarra

1. Solve for x in the equation

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

$$x = \frac{12 + 2k}{16 - 3}$$

2. Multiply out and simplify. Check your answer.

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

3. Put over a common denominator and simplify.

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

XIG

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

4

5. Calculate

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

20 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?

6

hours

7. Solve for x and y

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

$$x + y = 10$$

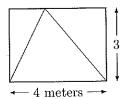
$$x = \sqrt{C}$$

$$y =$$

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?

* 40C

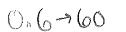
9. What is the area of the shaded region?

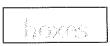


1 3 meters

square meters

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





Score



No calculators

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Eloise zhong 6207738

1-2X+x+x+x-2X+x3 1-2X+x+x+x3

1. Solve for x in the equation

$$\frac{3(x+4)-h(\alpha)}{3(x+4)-h(\alpha)}$$

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

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

2. Multiply out and simplify. Check your answer.

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

1-7-8-423

3. Put over a common

denominator and sim-

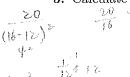
6-xPLHXII plify.

$$\frac{\cancel{x}+\cancel{y}}{\cancel{z}}$$
 $2x+3$

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

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

5. Calculate



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

 $50 + 60(t-3) = 37^{0}$ 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?



5

TOOL POLY LOST = 001X5-2+1X021+0-11X525

7. Solve for x and y

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

$$x + y = 10$$

300-g)-Jy=2 30-841 -2-40 -84: 42 4:4

$$y = \psi$$

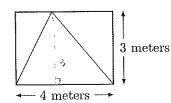
2-5-1-2-5-5

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?



s 400

9. What is the area of the shaded region?



6

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 = 120,000

60

%

hours

150 Jx 50 100

Put your final answers in the



Score 10

No calculators

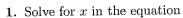
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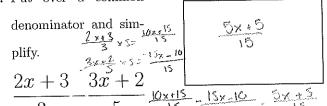


Solve for
$$x$$
 in the equation
$$\frac{3x+12=4x-2x}{3x-4x-2}$$
$$3(x+4)=k(x-2).$$
$$x=\frac{12+2x}{3-4}$$
$$x=\frac{12+2x}{3-4}$$

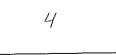
2. Multiply out and simplify. Check your answer.

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

3. Put over a common



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



5) Calculate

$$\frac{20}{10} = \frac{6}{4}$$
 $\frac{20}{\left(16 - \left(\frac{1}{3} - \frac{1}{4}\right)^{-1}\right)^2}$

3x-5y=-2

$$\frac{20}{(16(12)^{2})^{2}}$$

$$(16-12)^{2}$$

$$(4)^{2}\cdot 16$$

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

hours

(7) Solve for x and y

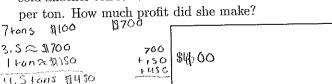
$$3x - 5y = -2$$
$$x + y = 10$$

 $x = \setminus_{0}$

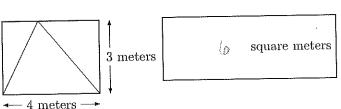
20 = 5 - 1.75

$$y = \mathcal{U}$$

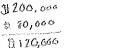
8. An entrepreneur bought 7 tons of apples for \$100 per ton. She sold half the apples at a price of \$200 per ton. She sold another ton for \$150. The remainder she sold at \$100



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?



120,000 70%

Yobn NYE 1/0/47(3)