Homework Review - 6.5

$$\frac{7}{4} | 3j+5| + | = 15$$

$$-1 - 1$$

$$\frac{7}{4} | 3j+5| = 34$$

$$| 3j+5| = 8$$

$$3j+5=-13$$

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$$3j=-13$$

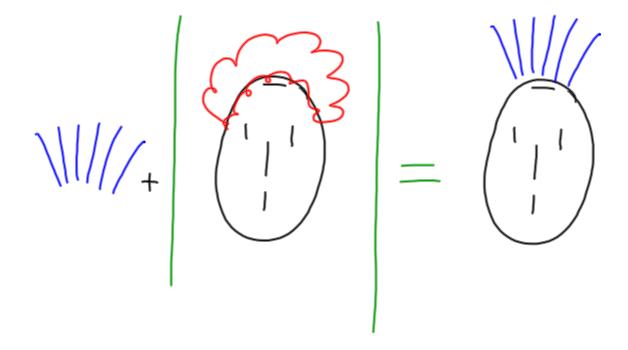
$$3j=-13$$

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$$\frac{26) - 4|8 - 5n| = 13}{-4} - \frac{4b}{-4} = 13$$

$$|8 - 5n| = -\frac{13}{4}$$

$$|8 - 5n| = -\frac{13}{4}$$
No solution



PARKS A rectangular city park has an area of 211,200 square feet. If the length of the park is 660 feet, what is the width of the park?

area =
$$211,200 \text{ ft}^3$$

length = 660 feet $A = 2 \times w$
 $w = \text{width of the park}$
 $\frac{211,200}{660} = \frac{660 \times w}{660}$
 $\frac{320}{660} = w$

$$4y - |(y - 4)| = -20$$

$$4y - y + 4 = -20$$

$$3y + 4$$

FOOTBALL You purchase 5 tickets to a football game from an Internet ticket agency. In addition to the cost per ticket, the agency charges a convenience charge of \$2.50 per ticket. You choose to pay for rush delivery, which costs \$15. The total cost of your order is \$352.50. What is the price per ticket not including the convenience charge?

5 tickets

$$a.50 = con. charge (per ticket)$$

 $15 = del. cost$
 $35a.50 = total (ost)$
 $P = price per ticket$
 $35a.50 = 15 + (p + a.50)$
 $35a.50 = 17.50 + 5p$
 $-a7.50 - a7.50$
 $35a.50 = 17.50 + 5p$
 $-a7.50 - a7.50$
 $35a.50 = 5p$
 $5a.50 = 5p$
 $5a.50 = 5p$
 $5a.50 = 5p$

$$6(2a + 10) = 5(a + 5)$$

$$12a + 60 = 5a + 25$$

$$-5a - 5a$$

$$7a + 60 = 25$$

$$4(x - 3) = -2(6 - 2x)$$

$$4x - 1a = -12$$

$$4x + 4x + 5$$

GEOMETRY Refer to the square shown. **a.** Find the value of x. **b.** Find the perimeter of the square. $8x - 3 = 4 \times 4 \times 5$ $8x - 3 = 4 \times 4 \times 5$ $3x - 3 = 4 \times 4 \times 5$ $3x - 3 = 4 \times 4 \times 5$ $2x = 8 \times 4 \times 29 = 116$

$$\frac{c+2}{45} = \frac{8}{5}$$

$$\frac{5c+10 = 360}{5c-10}$$

$$\frac{5c-10}{5c-10}$$

$$\frac{5c-10}{5c-10}$$

$$\frac{5c-10}{5c-10}$$

$$\frac{5c-10}{5c-10}$$

PAINTING The label on a can of paint states that one gallon of the paint will cover 560 square feet. How many gallons of that paint are needed to cover 1400 square feet?

$$\frac{1}{560} = \frac{x}{1400} \qquad x = \frac{1400}{560} = 2...$$
= 3 cans

What number is 30% of 55?

$$\frac{X}{55} = \frac{30}{100}$$

$$\frac{X}{55} = \frac{30}{100}$$
 $X = 30\% \cdot 55$

What percent of 56 is 21?

$$\frac{x}{100} = \frac{21}{56}$$

$$\frac{x}{100} = \frac{21}{56}$$
 $21 = p^{0}/_{0}, 56$

CONCERTS There were 7500 tickets sold for a concert, 20% of which were general admission tickets. How many general admission tickets were sold?

$$\frac{x}{7500} = \frac{20/}{100/}$$
 $20 \cdot 7500$

$$3x = 2y - 18$$

$$+18 = 3x + 18$$

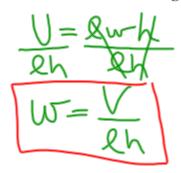
$$3x + 19 = 34$$

$$3x + 19 = 34$$

$$y = 3x + 9$$

$$y = 3x + 9$$

AQUARIUMS A pet store sells aquariums that are rectangular prisms. The volume V of an aquarium is given by the formula $V = \ell w h$ where ℓ is the length, w is the width, and h is the height.

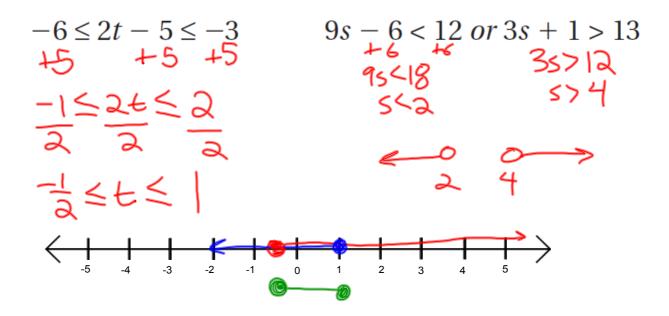


$$2g+11<25$$

$$\frac{2}{3}r - 4 \ge 1$$

$$3(q+1) < 3q+7$$

TICKET PURCHASES You can order discount movie tickets from a website for \$7 each. You must also pay a shipping fee of \$4. You want to spend no more than \$40 on movie tickets. Find the possible numbers of movie tickets that you can order.



$$2|x-3|+1=5$$

$$3|2q+1|-5=1$$

$$4|3p-2|+5=11$$

Homework:

Study for the test tomorrow!

Suggested practice:

Relevant problems on Ch. 3 test (p. 197)

Relevant problems on Ch. 6 test (p. 419)