## Warm Up Grade 8

(x,y) which are you given and where do you sub in

1) Find the missing value for the ordered pairs of y = -2x + 5 (show work)

a) 
$$(-5, \underline{)}$$
  
given  $\underline{x}$  fill in  
Sub in  
 $y = -2(x) + 5$   
 $= -2x(-5) + 5$   
 $= +10 + 5$   
 $= +15$   
 $(-5, +15)$ 

b) 
$$(x, -31)$$
 $y = -2x + 5$ 
 $-31 = -2x + 5$ 

Solve for "x" (Read -31)

 $-36 = -2x + 5 - 5$ 
 $-36 = -2x + 5$ 

b) 
$$\begin{pmatrix} x & y \\ -1 & -23 \end{pmatrix}$$
  
 $y = 3x - 2$   
 $-23 = 3x - 2$   
 $-23 = 3x - 2$   
 $-21 = 3x$   
 $-21 = 3x$   
 $-21 = -23$ 

## Questions??

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8) Front/back side/side top/bottom
$$A = b \times h \qquad A = b \times h \qquad A = b \times h$$

$$= 7 \times 22 \qquad = 7 \times 10 \qquad = 10 \times 22$$

$$= 154 \text{cm}^2 \qquad = 70 \text{ cm}^2 \qquad = 220 \text{ cm}^2$$

$$\text{Total SA} =$$

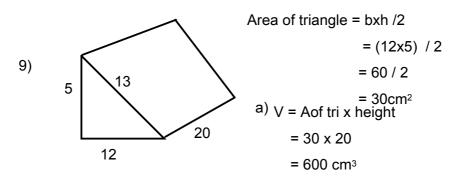
$$= 2(154 cm^2) + 2(70 cm^2) + 2(220 cm^2)$$

$$= 308 + 140 + 440$$

= 888 cm<sup>2</sup>

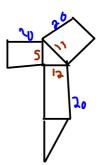
Area of whole = 
$$4 \times 14$$
  
=  $56 \text{ cm}^2$ 

SA with hole = 
$$888 - 56$$
  
=  $832 \text{ cm}^2$ 



c) Area of Rec = bxh Area of Rec = bxh Area of Rec = bxh = 
$$12 \times 20$$
 =  $13 \times 20$  =  $5 \times 20$  =  $240 \text{ cm}^2$  =  $260 \text{ cm}^2$  =  $100 \text{ cm}^2$ 

Total SA = 2 triangle + rec +rec +rec  
= 
$$2(30) + 240 + 260 + 100$$
  
=  $60 + 240 + 260 + 100$   
=  $760 \text{ cm}^2$ 



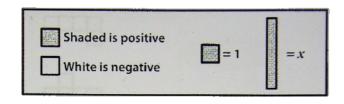
$$(x)^{3:4}$$
 red=27

13)a) 25 % off means we are paying 75%

$$0.75 \text{ of n} = 34.99$$

Price with tax =  $34.99 + 4.55$ 

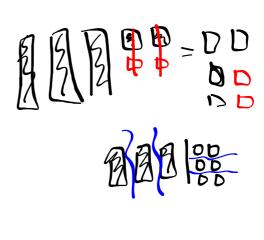
$$n = $46.65$$



The diagram below represents an equation.

$$3x + 2 = -4$$

What would be the value of x for this equation?



$$3x+2=-4-2$$

$$3x=-6$$

$$3x=-6$$

Given that 2w + 4t = 60, and t = 8, find the value of w.

$$2(w) + 4(t) = 60$$

$$2w + 4(8) = 60$$

$$2w + 32 = 60$$

$$2w + 323t = 60 - 32$$

$$2w = 28$$

$$2w = 28$$

$$2w = 28$$

$$w = 14$$

The Grade 8 students had a dance.

The DJ charged \$150 for setting up the music

plus \$3.00 per student who attended the dance.

The DJ was paid \$375.

How many students attended the dance?

$$3x + 150 = 375$$

$$3x + 150 = 375 - 150$$

$$3x = \frac{225}{3}$$

Kim used the distributive property to solve the following equation: 12(x - 3) = 72. Check her work to see if her solution is correct.

If there is an error, correct it.

$$12(x-3) = 72$$

$$12x - 36 = 72$$

$$12x - 36 + 36 = 72 - 36$$

$$12x = 36$$

$$12x = 36$$

$$12 = 36$$

$$12 = 36$$

$$12 = 36$$

The values for x and y are relate as follows: y = 2x + 5.

If x increases by 3, what happens to y?

$$y = 2(x+3) + 5$$
 $2x + 6 + 5$ 
 $2x + 11$ 

Eric is organizing a skating party. He has to pay \$50 to rent the rink and \$4 for lunch for each person. He made a table of values, but he made an error in one of the costs. Identify the error and provide the correct value. Provide an explanation for the correction.

4x + 50

	# people p	1	2	3	4	5	6	7	8	
	Cost (\$) C	54	58	62	68	70	74	78	82	
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$$y = -2x + 3$$

Determine the value of y for the ordered pair (7, y).

Determine the value of x for the ordered pair (x, 11).

## **Review Questions**

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