



Warm Up Grade 8

Oct. 17, 2017



1) Find the missing value for the ordered pairs of  $y = 6x + 5$   
( show work)

a)  $x, y$   
a)  $(-5, \underline{\quad})$

$$y = 6x + 5$$

$$y = 6(-5) + 5$$

$$= -30 + 5$$

$$y = -25$$

$$(-5, -25)$$

b)  $x, y$   
b)  $(\underline{\quad}, 59)$

$$y = 6x + 5$$

$$\downarrow$$

$$59 = 6x + 5$$

$$59 - 5 = 6x + 5 - 5$$

$$54 = 6x$$

$$\frac{54}{6} = \frac{6x}{6}$$

$$9 = x$$

$x, y$   
 $(9, 59)$

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# 4(b,c), #5(a,c), #6, #7, #8(b), #11, #12(Like a test question)

b)

$$y = x + 3$$

Input	Output
$x$	
1	4
2	5
3	6
4	7
5	8

Show work

$$x + 3$$

$$\xleftarrow{x=1} (1) + 3$$

$$\xleftarrow{x=2} (2) + 3$$

$$\xleftarrow{x=3} (3) + 3$$

c)

$$y = 2x$$

Input	Output
$x$	$y$
1	2
2	4
3	6
4	8
5	10

$$2 \cdot (x)$$

$$\xrightarrow{x=1} 2(1)$$

$$\xrightarrow{x=2} 2(2)$$

$$\xrightarrow{x=3} 2(3)$$

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5. a)  $y = 2x + 1$

Input	Output
$x$	$y$
1	3
2	5
3	7
4	9
5	11

# 4(b,c), #5(a,c), #6, #7,

$x = 1$

$y = 2x + 1$

$= 2(1) + 1$

$= 2 + 1$

$= 3$

$x = 2$

$y = 2x + 1$

$= 2(2) + 1$

$= 4 + 1$

$= 5$

$x = 3$

$y = 2x + 1$

$= 2(3) + 1$

$= 6 + 1$

$= 7$

c)  $y = -2x + 1$

Input	Output
$x$	$y$
1	-1
2	-3
3	-5
4	-7
5	-9

$x = 1$

$-2(1) + 1$

$-2 + 1$

$-1$

$x = 2$

$-2(2) + 1$

$-4 + 1$

$-3$

$x = 3$

$-2(3) + 1$

$-6 + 1$

$-5$

6. ordered pairs

Input	Output
$x$	$y$
0	-7
1	2
2	11
3	20
4	29
5	38

$$y = 9x - 7$$

$$x = 2 \quad 9(1) - 7$$

$$9 \times 2 - 7$$

$$18 - 7$$

$$11$$

$$x = 4$$

$$9 \times 4 - 7$$

$$36 - 7$$

$$29$$

$$y = 9(x) - 7$$

$$38 = 9x - 7 \quad \text{or}$$

$$38 + 7 = 9x - 7 + 7$$

$$45 = 9x$$

$$\frac{45}{9} = \frac{9x}{9}$$

$$5 = x$$

see if pattern continue

$$9 \times 5 - 7$$

$$45 - 7$$

$$38$$

7.  $w = 7h$

Input	Output
$h$	$7h$
1	7
2	14
3	21
4	28
5	35

$$h = 1$$

$$7(1) = 7$$


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$$h = 2$$

$$7(2) = 14$$


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$$h = 3$$

$$7(3) = 21$$

Input	Output

b)

$$7h = 105$$

$$\frac{7h}{7} = \frac{105}{7}$$

$$h = 15$$

c)

$$h = 24$$

$$w = 7h$$

$$= 7 \times 24$$

$$= 168$$

8a) 😊

$$y = x + 2$$

Input	Output
$x$	$y$
-3	-1
-2	0
-1	1
0	2
1	3
2	4
3	5

Input	Output

b)

$$y = x - 3$$

Input	Output
$x$	$y$
-3	-6
-2	-5
-1	-4
0	-3
1	-2
2	-1
3	0

c) 😊

$$y = x + 4$$

Input	Output
$x$	$y$
-3	-1
-2	2
-1	3
0	4
1	5
2	6
3	7



Cost of catering a banquet supper for the local seniors is \$8 per plate and flat fee of \$100. Calculate the following when given the equation,

$$C = 8p + 100$$

a) How much does it cost if 50 people decide to go?  
(SHOW YOUR WORK)  $P = 50$

$$\begin{aligned} C &= 8p + 100 \\ &= 8(50) + 100 \\ &= 400 + 100 \\ &= \$500 \end{aligned}$$

It will cost \$500  
if 50 people attend banquet

b) If the company gets paid \$284, then how many people attended? (SHOW YOUR WORK)  $C = \$284$

$$C = 8p + 100$$

$$284 = 8p + 100$$

$$284 - 100 = 8p + 100 - 100$$

$$184 = 8p$$

$$\frac{184}{8} = \frac{8p}{8}$$

$$\boxed{23 = p}$$

If the company  
gets paid \$284  
the 23 people  
attended.

# Class/Homework

pg. 356 (Day 2)

# 5b, #8(~~a,c~~), #9(a, ~~b~~, c), , #10, #11, #12(Like a test question) -

~~a~~  
b  
~~a~~  
b  
c

$$m = 100 - 2n$$

$$y = 100 - 2x$$

OR  $-2x + 100$

12a)

(n) x	m y
1	98
2	
3	
4	
5	

n=1	n=2	n=3
100-2(n)	}	}
100-2(1)		
100-2		
98		