



## Warm Up Grade 8



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

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

$$\begin{aligned}
 y &= 6x + 5 \\
 &= 6(-5) + 5 \\
 &= (-30) + 5 \\
 \boxed{y} &= \boxed{-25} \\
 &(-5, -25)
 \end{aligned}$$

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

$$\begin{aligned}
 y &= 6x + 5 \\
 59 &= 6x + 5 \\
 59 - 5 &= 6x + 5 - 5 \\
 54 &= 6x \\
 \div 6 &\quad \div 6 \\
 \boxed{9} &= \boxed{x} \\
 (9, 59)
 \end{aligned}$$

Key word

for each  
for every  
per  
/



This #  
goes  
with  
the  
variable

## Pg 356

# 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

c)

$$y = 2x$$

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

5. a)  $y = 2x + 1$  Pg 356

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

$-2(1) + 1$

$-2 + 1$

$-1$

$-2(2) + 1$

$-4 + 1$

$-3$

$-2(3) + 1$

$-6 + 1$

$-5$

b. ordered pairs

1

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

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
1	3
-3	-1
-2	0
-1	1
0	2
1	3
2	4
3	5

Input	Output

b)

$$y = x - 3$$

Input	Output
1	-2
-3	-6
-2	-5
-1	-4
0	-3
1	-2
2	-1
3	0

c) 😊

$$y = x + 4$$

Input	Output
1	5
-3	1
-2	2
-1	3
0	4
1	5
2	6
3	7

$$1 \text{ ☺ } a) y = -2x + 7$$

$$a) (-8, \_)$$

$$y = -2x - 8 + 7$$

$$y = 16 + 7$$

$$= 23$$

$$b) (12, \_)$$

$$y = -2 \times 12 + 7$$

$$= -24 + 7$$

$$= -17$$

$$c) ( \_, 31)$$

$$31 = -2x + 7$$

$$31 - 7 = -2x + 7 - 7$$

$$24 = -2x$$

$$\frac{24}{-2} = \frac{-2x}{-2}$$

$$-12 = x$$

$$d) ( \_, -23)$$

$$-23 = -2x + 7$$

$$-23 - 7 = -2x + 7 - 7$$

$$-30 = -2x$$

$$\frac{-30}{-2} = \frac{-2x}{-2}$$

$$15 = x$$

$$12. m = 100 - 2n$$

Input	Output
0	100
5	90
10	80
15	70
20	60
25	50

(b)  
 $\rightarrow$  after 20 weeks  
 he will have a mass  
 of 60kg

$$b) 100 - 2n = 60$$

$$100 - 2n - 100 = 60 - 100$$

$$-2n = -40$$

$$\frac{-2n}{-2} = \frac{-40}{-2}$$

$$n = 20$$

In 20 months  
 he will have  
 reached 60kg

$$c) n = 7, \quad 100 - 2n$$

$$100 - 2 \times 7$$

$$100 - 14$$

$$86$$

On his 7-day  
 his mass was  
 86kg







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)

$$C = 8p + 100$$

$$C = 8(50) + 100$$

$$C = 400 + 100$$

$$C = 500$$

The cost to cater banquet for 50 people is \$500.

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

$$C = 8p + 100$$

$$284 = 8p + 100$$

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

$$184 = 8p$$

$$\div 8 \quad \div 8$$

$$23 = p$$

23 people can attend.

# Class/Homework

$$m = 100 - 2n$$

pg. 356 (Day 2)

finish # 11, 12

# 5b, #8(a,,c), #9(a.b.c), , #10

Sheet Extra Practice 6 V2

n	m
1	
2	-
3	
4	
5	

## Attachments

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Extra Practice 6 Version 2.docx