

Sixth Grade: Activity 16 Practice

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Lesson 16-1

1. a.

Hour	Miles
0	0
1	60
2	120
3	180
4	240
5	300

b. $d = 60t$

c. $t = 9$ hours; $540 \div 60 = 9$

d. 720 miles; $d = 60(12) = 720$

2. a. $d = 5(60) = 300$ ft

b. $d = 3(60) = 180$ ft

c. Sen: $m = 108$ minutes,
Lady: $m = 180$ minutes

3. a. $m = 72$; the minutes needed to
crawl 540 feet

b. $d = 4050$ ft; the distance traveled
after 540 minutes

4. a.

Year	Input, y	$y + 3$	Output, s
0	0	$0 + 3$	3
1	1	$1 + 3$	4
2	2	$2 + 3$	5
3	3	$3 + 3$	6
4	4	$4 + 3$	7
5	5	$5 + 3$	8

b. $s = y + 3$

c. 18

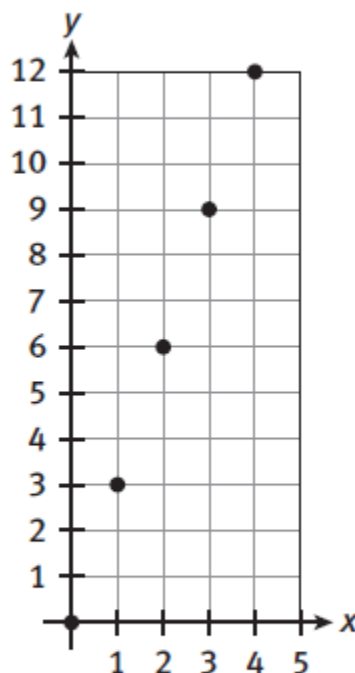
d. 22

Lesson 16-2

5. a.

Week	0	1	2	3	4
Painting	0	3	6	9	12

b.



c. $y = 3x$

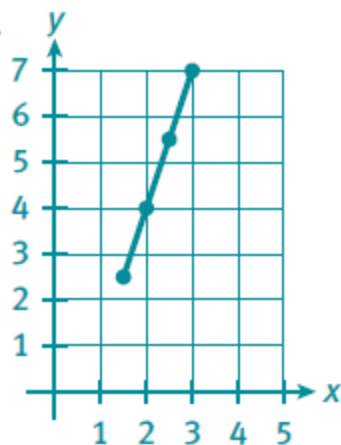
d. x is the independent variable and
 y is the dependent variable

e. 8

6. a.

Input, x	$3x - 2$	Output, y
2	$3(2) - 2$	4
3	$3(3) - 2$	7
1.5	$3(1.5) - 2$	2.5
2.5	$3(2.5) - 2$	5.5

b.

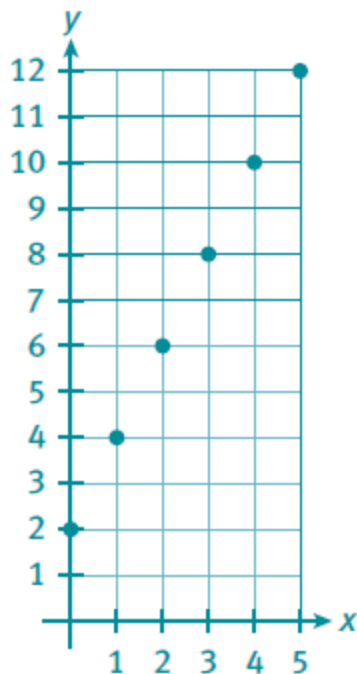


7. After 4 weeks, Naeem will only have 7 paintings total, but Niall will have painted a total of 12 paintings because she paints more.

8. a.

Input, x	$2x + 2$	Output, y
0	$2(0) + 2$	2
1	$2(1) + 2$	4
2	$2(2) + 2$	6
3	$2(3) + 2$	8
4	$2(4) + 2$	10
5	$2(5) + 2$	12

b.



c. $y = 2x + 2$

d. 22

e. Week 13; $2(13) + 2 = 28$

9. Answers will vary. Both go up at a constant rate, but 5b starts at (0,0) and 8b starts at (0,2)
10. Answers will vary. As x increases by 1, y increases by 5. The equation is $y = 5x$.