

# Lesson 5-3 Homework Practice: Write Linear Equations (20 Points)

Write an equation in slope-intercept form

1. Slope = 1  
y-intercept = -4

2. Slope = 2  
y-intercept = -3

3. Slope =  $\frac{1}{3}$   
y-intercept = 1

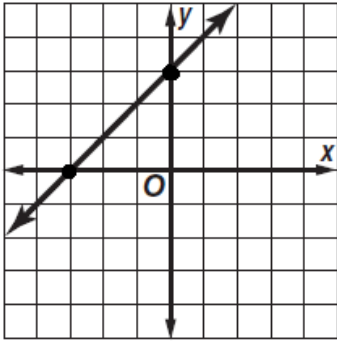
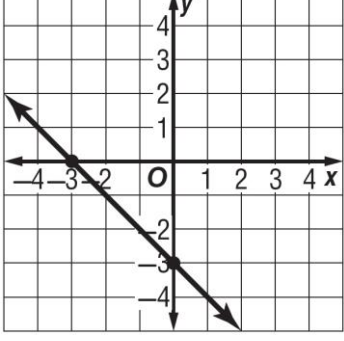
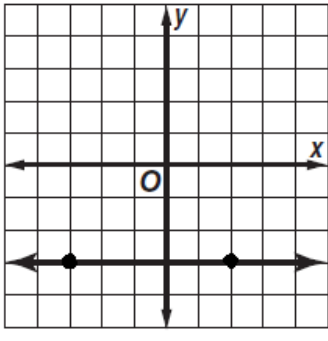
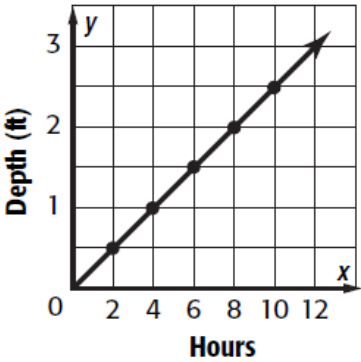
4. Slope =  $-\frac{3}{2}$   
y-intercept = 0

y = \_\_\_\_\_

y = \_\_\_\_\_

y = \_\_\_\_\_

y = \_\_\_\_\_

Question 5	Question 6	Question 7	Question 8																																										
			<p style="text-align: center;"><b>Snowfall</b></p> 																																										
<p>m = _____ b = _____</p> <p>y = _____</p>	<p>m = _____ b = _____</p> <p>y = _____</p>	<p>m = _____ b = _____</p> <p>y = _____</p>	<p>m = _____ b = _____</p> <p>y = _____</p> <p style="text-align: center;"><b>**Watch Scale**</b></p>																																										
Question 9	Question 10	Question 11	Question 12																																										
<table border="1" style="display: inline-table; margin-right: 10px;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>7</td></tr> <tr><td>2</td><td>13</td></tr> <tr><td>3</td><td>19</td></tr> </tbody> </table> <p>m = _____</p> <p>b = _____</p>	x	y	0	1	1	7	2	13	3	19	<table border="1" style="display: inline-table; margin-right: 10px;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>3</td><td>13</td></tr> <tr><td>6</td><td>28</td></tr> <tr><td>9</td><td>43</td></tr> <tr><td>12</td><td>58</td></tr> </tbody> </table> <p>m = _____</p> <p>b = _____</p>	x	y	3	13	6	28	9	43	12	58	<table border="1" style="display: inline-table; margin-right: 10px;"> <tbody> <tr><td>x</td><td>-1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>y</td><td>4</td><td>2</td><td>0</td><td>-2</td><td>-4</td></tr> </tbody> </table> <p>m = _____ b = _____</p>	x	-1	0	1	2	3	y	4	2	0	-2	-4	<table border="1" style="display: inline-table; margin-right: 10px;"> <tbody> <tr><td>x</td><td>-1</td><td>1</td><td>3</td><td>5</td></tr> <tr><td>y</td><td>-2</td><td>0</td><td>2</td><td>4</td></tr> </tbody> </table> <p>m = _____ b = _____</p>	x	-1	1	3	5	y	-2	0	2	4
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Equation of Line:	Equation of Line:	Equation of Line:	Equation of Line:																																										

State the slope and the y-intercept for the graph of each equation.

13.  $y = 4x + 1$

14.  $y = -3x + 5$

15.  $-x + y = 4$

16.  $y = \frac{5}{6}x - 3$

17.  $2y + 3x = -8$

18.  $y = \frac{1}{5}x + 2$

**19. WEATHER** The equation  $y = 0.2x + 3.5$  can be used to find the amount of accumulated snow  $y$  in inches  $x$  hours after 5 P.M. on a certain day. Identify the slope and  $y$ -intercept of the graph of the equation and explain what each represents.

**20. SALARY** Janette's weekly salary can be represented by the equation  $y = 500 + 0.4x$ , where  $x$  is the dollar total of her sales for the week. Identify the slope and  $y$ -intercept of the graph of the equation and explain what each represents.

**21.)** Find the missing  $x$ ,  $y$  values and write the equation of the line

1	2	3	4	5	6	7		9	10
1	4	9	16	25			64		

Equation: \_\_\_\_\_

**22.)** Find the missing  $x$ ,  $y$  values and write the equation of the line

5	10	15	20	25	30	35		45	50
0	5	10	15	20			35		

Equation: \_\_\_\_\_



## Power Up! Common Core Test Practice



### Common Core Spiral Review

**A.N.5: Percents: Solve algebraic problems arising from situations that involve fractions, decimals, percents (decrease/increase and discount), and proportionality/direct variation**

**MUST SHOW ALL WORK! ANSWERS BELOW**

1 In a recent town election, 1,860 people voted for either candidate  $A$  or candidate  $B$  for the position of supervisor. If candidate  $A$  received 55% of the votes, how many votes did candidate  $B$  receive?

- 1) 186
- 2) 837
- 3) 1,023
- 4) 1,805

2 Twenty-five percent of 88 is the same as what percent of 22?

- 1)  $12\frac{1}{2}\%$
- 2) 40%
- 3) 50%
- 4) 100%

4 Linda paid \$48 for a jacket that was on sale for 25% of the original price. What was the original price of the jacket?

- 1) \$60
- 2) \$72
- 3) \$96
- 4) \$192

5 Rashawn bought a CD that cost \$18.99 and paid \$20.51, including sales tax. What was the rate of the sales tax?

- 1) 5%
- 2) 2%
- 3) 3%
- 4) 8%

1 ANS: 2  
Candidate  $B$  received 45%.  $45\% \times 1860 = 837$   
2 ANS: 4  
 $25\% \times 88 = 22x$   
 $22 = 22x$   
 $x = 1 = 100\%$

3 ANS: 3  
4 ANS: 4  
 $5\%(x) = 500$   
 $25\%(x) = 48$   
 $.25x = 48$   
 $x = 192$

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_