

Name: _____

Date: _____

Basic Skills
Writing Linear Equations Given
Slope and a Point

Write an equation of the line. Make sure the final equation is in slope-intercept form ($y=mx+b$)!

1. $\text{slope} = -3, y - \text{intercept} = -5$

2. $\text{slope} = -5, y - \text{intercept} = -4$

3. $\text{slope} = \frac{5}{8}, y - \text{intercept} = 0$

4. $\text{slope} = -\frac{3}{5}, y - \text{intercept} = 3$

5. $\text{slope} = \frac{8}{9}, y - \text{intercept} = \frac{1}{2}$

6. $\text{slope} = 0, y - \text{intercept} = 9$

Write an equation of the line that passes through the point and has the given slope. Make sure the final equation is in slope-intercept form ($y=mx+b$)!

7. $(0, 2), m = 1$

8. $(-3, 0), m = 4$

9. $(-3, 9), m = 8$

10. $(4, 5), m = -1$

11. $(7, -7), m = -3$

12. $(5, -10), m = \frac{1}{5}$

13. Doubling a child's height on his or her second birthday gives a close estimate of his or her final adult height. Write a linear model that gives the approximate adult height of a two-year old in terms of his or her current height.

Equation: _____

14. Use the equation from #13 to complete the table below.

Height at 2 Years Old, x	31	34	36	37.5
Adult Height, y				

