

- **1.** State the domain and range of the relation $\{(2, 5), (-3, 2), (2, 1), (-7, 4), (0, -2)\}$. Is the relation a function? Write *yes* or *no*. (Lesson 2-1)
- **2.** Find f(15) if $f(x) = 100x 5x^2$. (Lesson 2-1)

For Exercises 3–5, use the table that shows a teacher's class size in recent years. (Lesson 2-1)

Year	Class Size
2002	27
2003	30
2004	29
2005	33

- 3. Graph the relation.
- **4.** Identify the domain and range.
- **5.** Is the relation a function? Explain your reasoning.
- **6.** Write y = -6x + 4 in standard form. Identify *A*, *B*, and *C*. (Lesson 2-2)
- **7.** Find the *x*-intercept and the *y*-intercept of the graph of 3x + 5y = 30. Then graph the equation. (Lesson 2-2)
- **8. MULTIPLE CHOICE** What is the *y*-intercept of the graph of 10 x = 2y? (Lesson 2-2)

A 2 **B** 5 **C** 6 **D** 10

9. What is the slope of the line containing the points shown in the table? (Lesson 2-3)

X	у
1	-1
8	7
15	15

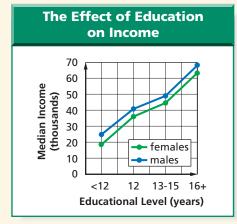
10. Graph the line that passes through (4, -3) and is parallel to the line with equation 2x + 5y = 10. (Lesson 2-3)

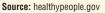
Find the slope of the line that passes through each pair of points. (Lesson 2-3)

11. (7, 3), (8, 5)	12. (12, 9), (9, 1)
13. (4, -4), (3, -7)	14. (0, 9), (4, 6)

SCHOOL For Exercises 15 and 16, use the following information.

The graph shows the effect that education levels have on income. (Lesson 2-3)





- **15.** Find the average rate of change of income for females that have 12 years of education to females that have 16+ years of education.
- **16.** Find the average rate of change of income for males that have 12 years of education to males that have 16+ years of education.
- **17.** Write an equation in slope-intercept form of the line with slope $-\frac{2}{3}$ that passes through the point (-3, 5). (Lesson 2-4)
- **18. MULTIPLE CHOICE** Find the equation of the line that passes through (0, -3) and (4, 1). (Lesson 2-4)
 - F y = -x + 3G y = -x - 3H y = x - 3J y = x + 3

PART-TIME JOB Jesse is a pizza delivery driver. Each day his employer gives him \$20 plus \$0.50 for every pizza that he delivers. (Lesson 2-4)

- **19.** Write an equation that can be used to determine how much Jesse earns each day if he delivers *x* pizzas.
- **20.** How much will he earn the day he delivers 20 pizzas?