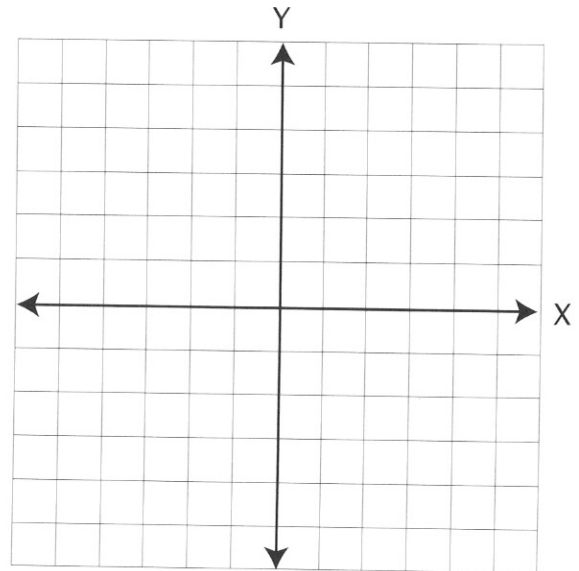


LESSON PRACTICE

Follow the directions.

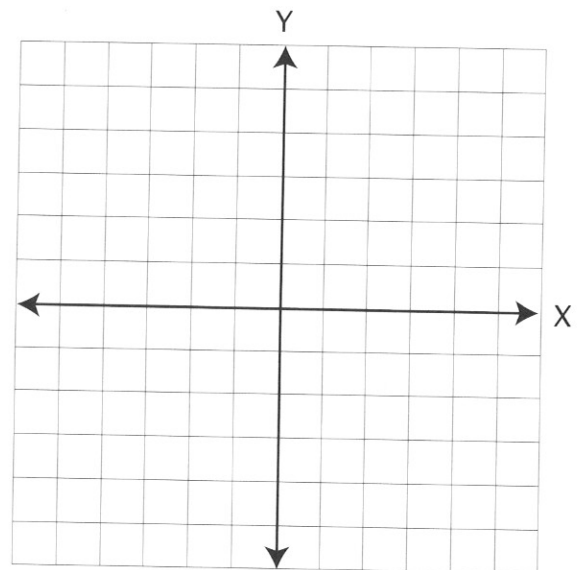
1. Draw a line with $m = 1/2$ through the point $(3, 2)$.
2. Estimate the Y-intercept, and then check by computing.
3. Describe the line using the slope-intercept form.
4. Now describe the line using the standard equation of a line.



5. Find the slope of the lines passing through the points $(-4, 5)$ and $(2, -2)$, and then draw to check.

6. Find the intercept by computing first. Then confirm by checking your drawing from #5.

7. Describe the line using the slope-intercept form.
8. Now describe the line using the standard equation of a line.



Given the slope of the line and a point on the line, describe the following lines using the slope–intercept form.

9. $m = 8; (1, 2)$

10. $m = 3; (1, 2)$

11. $m = -2; (3, 0)$

Given two points on a line, find the slope and Y–intercept of the line, and then describe it using the slope–intercept form.

12. $(2, 5) (-2, 3)$

13. $(5, 2) (1, 1)$

14. $(-2, -3) (-3, 1)$

15. $(-5, -6) (-2, -1)$

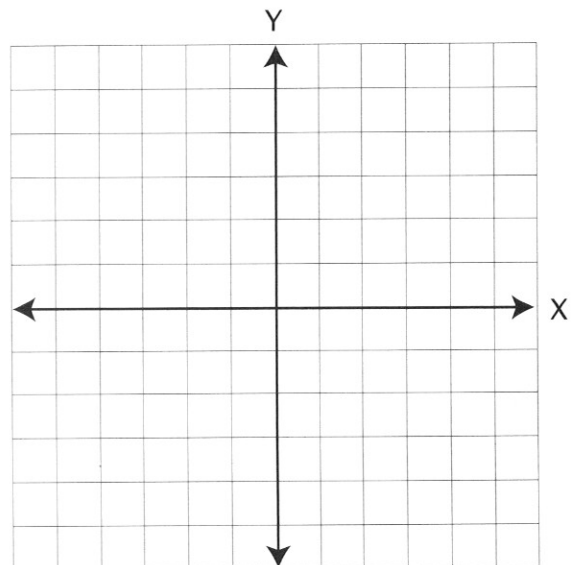
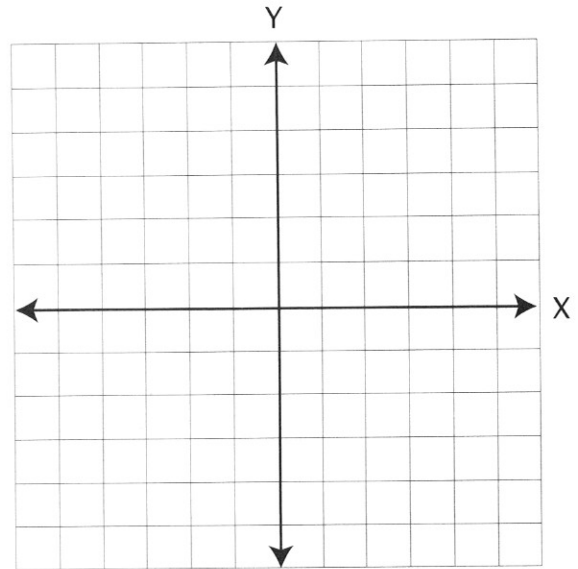
16. $(5, -3) (-1, 6)$

17. $(7, 2) (-3, 8)$

SYSTEMATIC REVIEW

Follow the directions.

1. Draw the line: $m = 1/4$
through the point $(-5, 1)$.
2. Find the intercept (b) .
3. Describe using the slope-intercept form, then using the standard form of the equation of a line.
4. Find the slope through $(1, 2)$ and $(-3, 2)$ by computing, and then drawing to check.
5. Find the intercept both ways (computing and drawing).
6. Describe using the slope-intercept form, then using the standard form of the equation of a line.
7. Draw a line parallel to $Y = -2X - 1$, through $(-1, 5)$.
8. Describe using the slope-intercept form, then using the standard form of the equation of a line.
9. Draw a line perpendicular to $Y = 3X - 2$, through $(3, 1)$.
10. Describe using the slope-intercept form, then using the standard form of the equation of a line.



Tell if each of the following is an example of the associative, commutative, or distributive property.

11. $3(4X - 2) = 12X - 6$

12. $(-3)(-16) = (-16)(-3)$

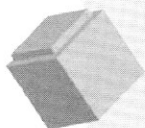
13. $2A + 2B = 2B + 2A$

14. $(X + Y) + Z = X + (Y + Z)$

Solve.

15. $\sqrt{9} =$

16. 45% of 98 =



QUICK REVIEW

A ratio may be written as a fraction and then changed to a percent.

EXAMPLE 1 The ratio of blondes to brunettes in the class is 2 to 3. What is the ratio of blondes to the total number of people?

$$\frac{2 \text{ Blondes}}{5 \text{ Total}} = \frac{2}{5}$$

EXAMPLE 2 What percent of the class is blonde?

$$\frac{2}{5} = 2 \div 5 = .40 = 40\%$$

EXAMPLE 3 If there are 20 students in the class, how many are blonde? $.4 \times 20 = 8$ blondes

17. In our family there are five boys and one girl. What is the ratio of boys to girls?

18. What is the ratio of boys to the total?

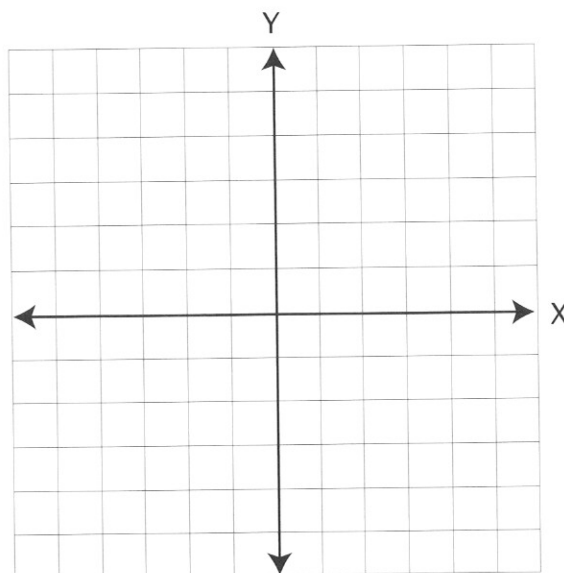
19. What percent of the family is boys? (Round to hundredths.)

20. If the extended family has 48 children with the same ratio of boys to girls, how many are boys? Use your fractional answer to #18 to compute, rather than using the rounded percent, or you will get part of a boy!

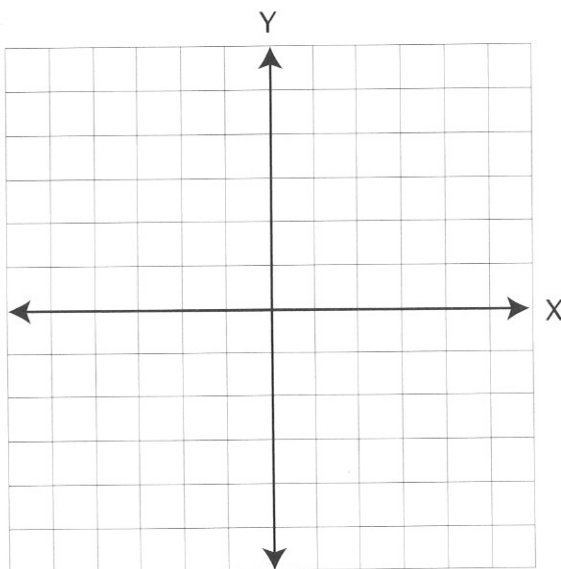
SYSTEMATIC REVIEW

Follow the directions.

1. Draw the line given: $m = -2/5$ through the point $(1, 1)$.
2. Find the intercept (b) .
3. Describe using the slope-intercept form, then using the standard form of the equation of a line.
4. Find the slope through $(-1, 4)$ and $(3, 2)$ by computing, and then drawing to check.
5. Find the intercept both ways (computing and drawing).
6. Describe using the slope-intercept form, then using the standard form of the equation of a line.



7. Draw a line parallel to $Y = -1/3 X - 4$, through $(3, -3)$.
8. Describe using the slope-intercept form, then using the standard form of the equation of a line.
9. Draw a line perpendicular to $Y = 2/3 X - 2$, through $(2, 1)$.
10. Describe using the slope-intercept form, then using the standard form of the equation of a line.



True or false.

11. Addition is associative.

12. Subtraction is associative.

13. Division is commutative.

14. Multiplication is commutative.

Solve.

15. $\sqrt{49} =$

16. 16% of 32 =

17. In our community you are either a Steelers or an Eagles fan. The ratio of Steelers fans to Eagles fans is 5 to 3. What is the ratio of Steelers fans to total fans? What percent is this?

18. What is the ratio of Eagles fans to total fans? What percent is this?

19. If there are 640 fans, how many are Eagles fans and how many are Steelers fans?

20. The growth in Sam's savings account is expressed by the equation $Y = 20X + 100$, where X is the number of weeks he has been saving, and Y is the total amount of money in the account. If he has been saving for 15 weeks at this rate, what is his total savings?