

**3.4****Practice A**

In Exercises 1–3, graph the linear equation.

1.  $x = 4$

2.  $y = 3$

3.  $x = -3$

In Exercises 4–7, find the  $x$ - and  $y$ -intercepts of the graph of the linear equation.

**DO NOT Graph**

4.  $2x - 5y = 10$

5.  $3x + 4y = 12$

6.  $-3x + 5y = -30$

7.  $-6x - 4y = 24$

In Exercises 8–13, use intercepts to graph the linear equation. Label the points corresponding to the intercepts.

8.  $2x + 4y = 8$

9.  $3x + 2y = 12$

10.  $-5x + 2y = 20$

11.  $-4x + 4y = 20$

12.  $-3x + 4y = 16$

13.  $-2x + 6y = 24$

**14.** A dance team has two competitions on the same day. The coaches decide to split the 96-member team, sending some to each competition. Competition A requires four-member dance teams per event, and Competition B requires six-member dance teams per event. The equation  $4x + 6y = 96$  models this situation, where  $x$  is the number of four-member teams and  $y$  is the number of six-member teams.

**a.** Graph the equation. Interpret the intercepts.

**b.** Find four possible solutions in the context of the problem.

**15.** Your club is ordering enrollment gifts engraved with your club logo. Key chains cost \$5 each. Wristbands cost \$2 each. You have a budget of \$150 for the gifts. The equation  $5x + 2y = 150$  models the total cost, where  $x$  is the number of key chains and  $y$  is the number of wristbands.

**a.** Graph the equation. Interpret the intercepts.

**b.** Your club decides to order 18 key chains. How many wristbands can you order?