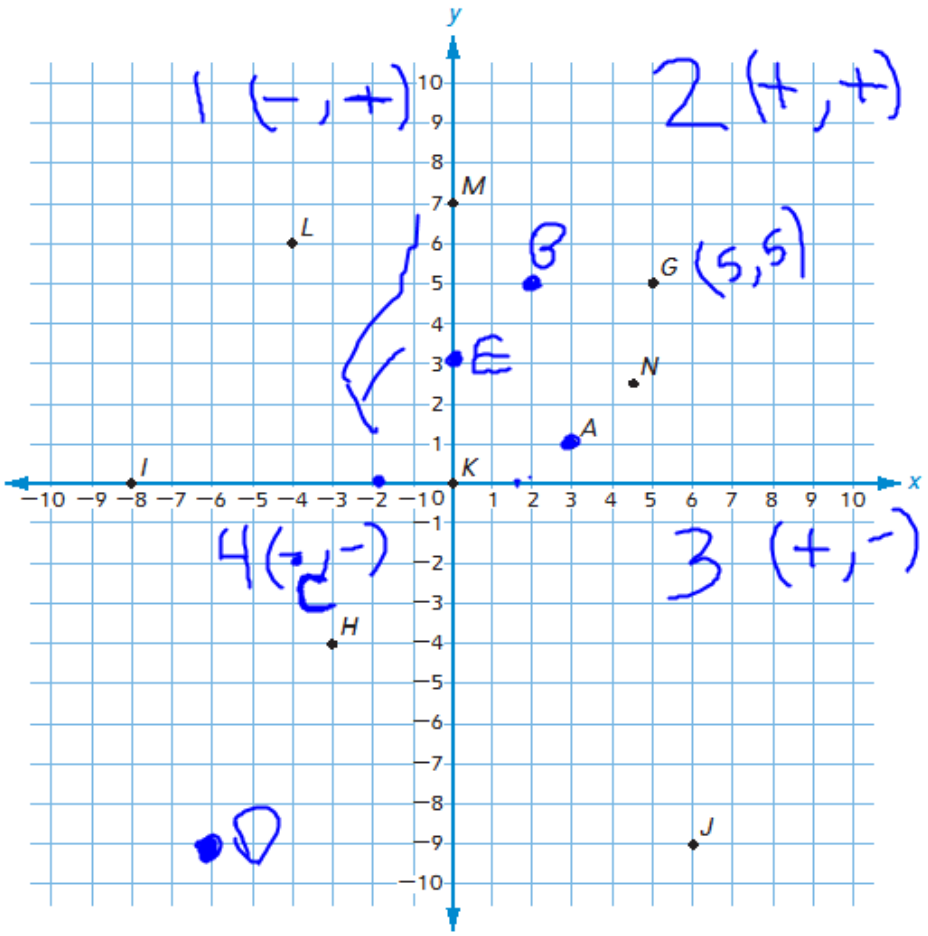
# Plotting Points in 4 Quadrants

Lesson 1-14

DATE TIME

## Math Message

A vertical and horizontal number line intersect at 0 to create the coordinate grid below. Each number line has a positive side and a negative side. Remember that the first number in each ordered pair tells you how to move along the horizontal number line, and the second number tells you how to move along the vertical number line.




**1** Plot and label the following points on the coordinate grid.
The first one has been done for you.

*A*: (3, 1) *B*: (2, 5) *C*: (−4, −2) *D*: (−6, −9) *E*: (0, 3) *F*: (−2, 0)

**2** The following points are shown on the coordinate grid. Write the ordered pair for each.

*G*: (5, 5) *H*: (_____, _____) *I*: (_____, _____)

*J*: (_____, _____) *K*: (_____, _____) *L*: (_____, _____)

*M*: (_____, _____) *N*: (_____, _____)

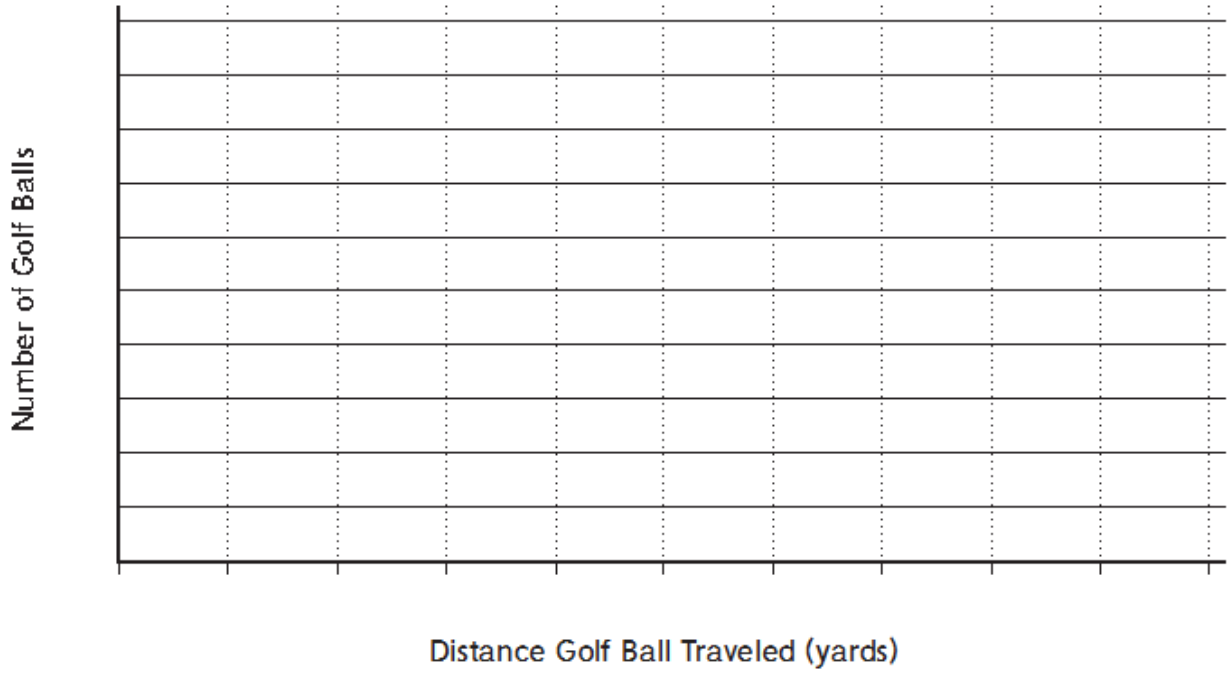
# Creating a Histogram

Lesson 1-14

DATE TIME

| Distance Golf Ball Travels (nearest yard) | | | | |
|---|---|---|---|---|
| 100 | 100 | 100 | 100 | 130 |
| 140 | 150 | 150 | 150 | 160 |
| 160 | 165 | 175 | 175 | 190 |
| 200 | 210 | 220 | 250 | 260 |

1. Create a histogram using the golf ball distance data. Decide what size bins make sense.




2. Title your histogram.

3. Estimate the mean distance the golf ball traveled. _____

4. Describe the shape of the histogram.

_____

5. Why do you think a graph of golf ball hits might have this shape?

_____

_____

# Math Boxes

Lesson 1-14

DATE TIME



**1** 624 / 3 = ?

Choose the best answer.

- ◯ 208
- ◯ 28
- ◯ 280
- ◯ 2,008

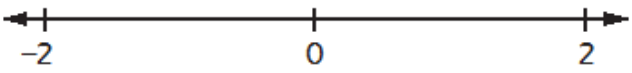
SRB 143-144, 147-148

**2** Which of the following numbers are divisible by 5? Check all that apply.

- ☐ 35
- ☐ 1050
- ☐ 1555
- ☐ 801

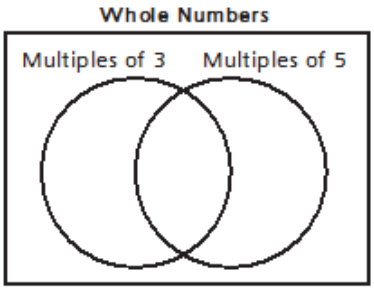
SRB 103

**3** Plot and label the opposite of each number on the number line: 0, 1, −1, and $\frac{3}{4}$.



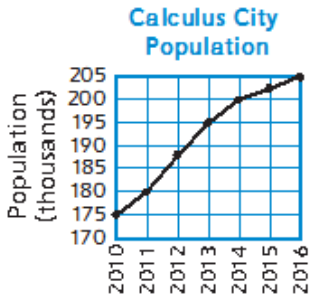

SRB 90-91, 94

**4** Place the following numbers in the correct section of the Venn diagram: 18, 30, 20, 15, 10, and 6.




SRB 106

**5**




Rishi used the graph to claim that the population of Calculus City doubled from 2010 to 2016. For him to be right, what would the population have to be in 2016?

Solution: _____

SRB 308

**6** The back wall in Maurice's bedroom measures $14\frac{3}{5}$ feet long. His new dresser measures $3\frac{4}{5}$ feet long. What length of the wall will be left after he places the dresser against the wall?

Solution: _____

SRB 32

# Hidden Treasure

**Materials**
- ☐ 1 sheet of *Hidden Treasure* Gameboards for each player (*Math Masters*, p. G11)
- ☐ 2 pencils
- ☐ 1 red pen or crayon

**Players** 2

**Skill** Plotting ordered pairs; calculating distances on a coordinate grid

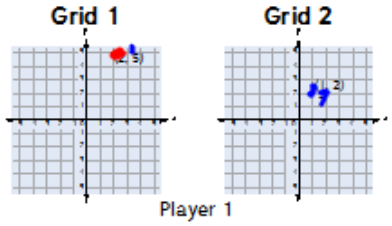
**Object of the Game** To find the other player's hidden point on a coordinate grid.

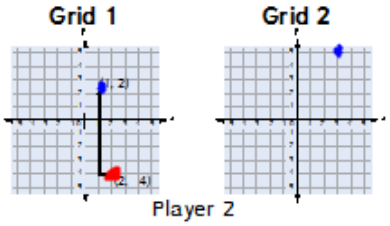
## Directions

1. Each player uses 2 grids. Players sit so they cannot see what the other is writing.
2. Each player secretly marks a point on his or her Grid 1. Use a red pen or crayon. These are the "hidden" points.
3. Player 1 guesses the location of Player 2's hidden point by naming an ordered pair. Player 1 records the guess on his or her Grid 2.
4. If Player 2's hidden point is at that location, Player 1 wins.
5. If the hidden point is not at that location, Player 2 marks the guess in pencil on his or her Grid 1. Player 2 tells Player 1 the fewest number of "square sides" needed to travel from the hidden point to the guessed point. Repeat Steps 3–5 with Player 2 guessing and Player 1 answering.
6. Play continues until one player finds the other's hidden point.

**Example**

Player 1 marks a hidden point at (2, 5). Player 2 marks a hidden point at (2, –4).



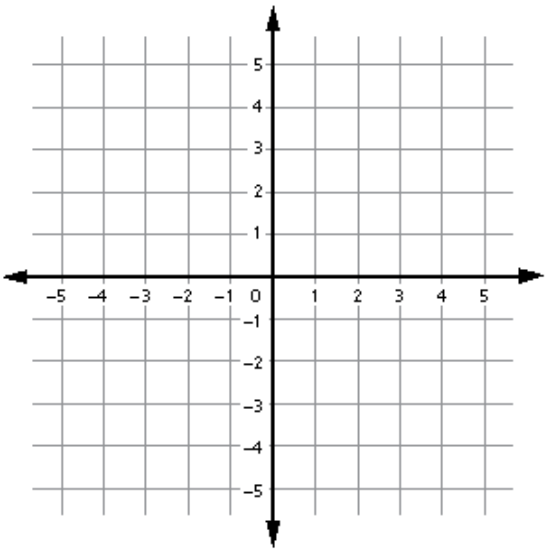

- Player 1 guesses that Player 2's hidden point is at (1, 2) and marks it on Grid 2 in pencil.
- Player 2 marks the point (1, 2) in pencil on Grid 1 and tells Player 1 that (1, 2) is 7 units (square sides) away from the hidden point.
- Player 1 writes "7" next to the point (1, 2) on his or her Grid 2. Player 1's turn is over. Player 2 makes a guess.

# *Hidden Treasure* Gameboards

NAME DATE TIME

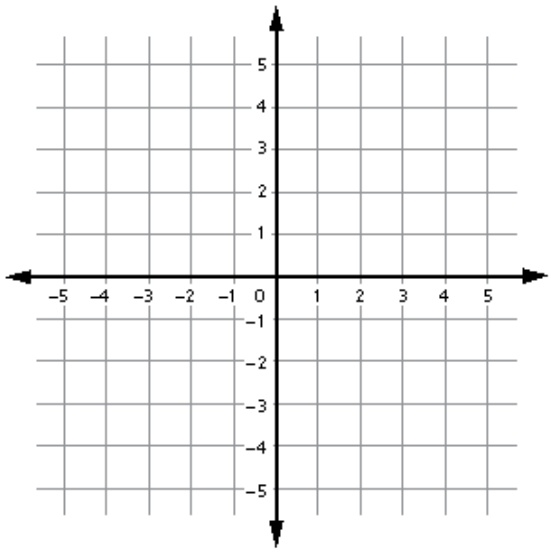
Each player uses Grids 1 and 2.

**Grid 1:** Hide your point here.



Grid 1

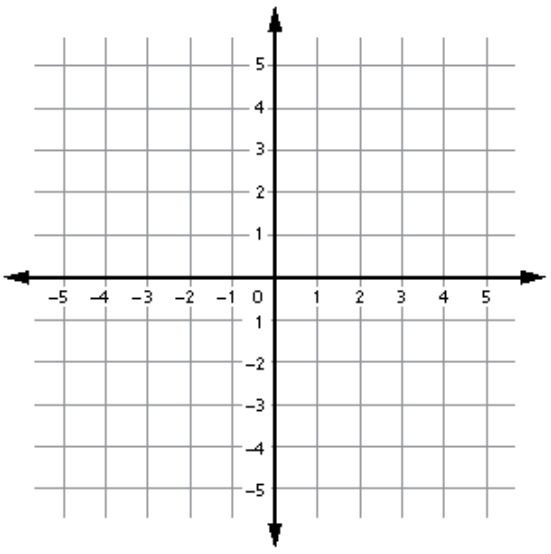
**Grid 2:** Guess other player's point here.



Grid 2

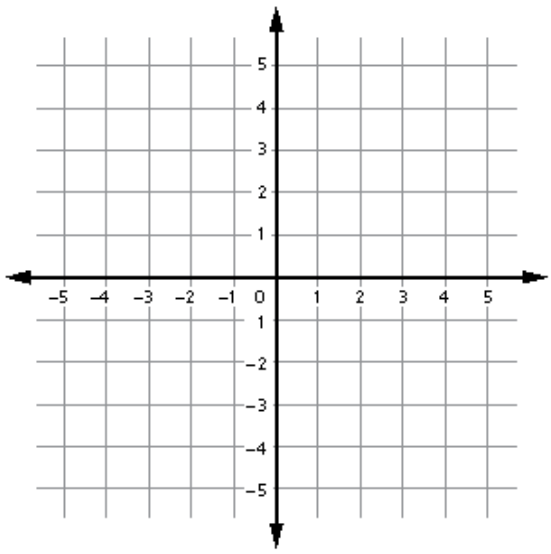
Use this set of grids to play another game.

**Grid 1:** Hide your point here.



Grid 1

**Grid 2:** Guess other player's point here.



Grid 2

# Coordinate Grid

NAME DATE TIME