

Name \_\_\_\_\_

## ✓ Checkpoint

### Concepts and Skills

1. Plot and identify the polygon with vertices at (4, 0), (8, 7), (4, 7), and (8, 0). (pp. P279–P280)

\_\_\_\_\_

2. A parallelogram has a base of 8.5 cm and a height of 6 cm. What is the area of the parallelogram? (pp. P281–P282)

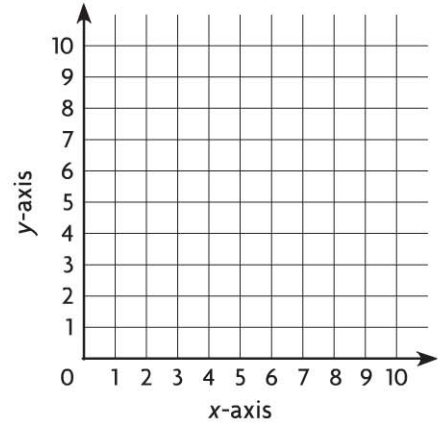
\_\_\_\_\_

3. Find the median and mode of Erin’s math scores: 93, 88, 85, 93, 100, 94, 85, 89. (pp. P283–P284)

median \_\_\_\_\_ mode \_\_\_\_\_

4. Find the average of the following temperatures: 59°F, 66°F, 59°F, 67°F, 54°F, 64°F, 72°F. (pp. P285–P286)

average \_\_\_\_\_



For 5–7, use the data below. (pp. P287–P290)

The math test scores for Miss Jackson’s class are given below.

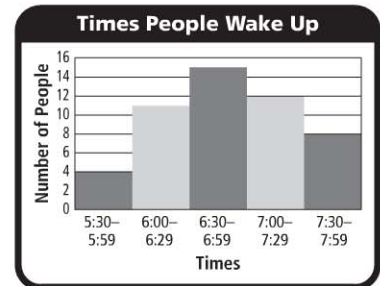
88, 94, 86, 78, 65, 83, 71, 74, 92, 73,  
95, 71, 100, 98, 68, 85, 81, 93, 89, 84

5. Make a histogram for the data using intervals of 10.  
6. Which interval has the greatest frequency?  
\_\_\_\_\_  
7. How many students received grades greater than 80? \_\_\_\_\_

### Problem Solving **REAL WORLD**

For 8–9, use the histogram. The histogram shows the times that people wake up in the morning. (pp. P287–P290)

8. How many people were surveyed? \_\_\_\_\_  
9. How many more people surveyed wake up between 6:30 and 6:59 than between 7:30 and 7:59?  
\_\_\_\_\_



Fill in the bubble completely to show your answer.

10. On a map of the town of Barton, City Hall Park has three of its four vertices at (15, 0), (5, 0), and (15, 9). City Hall Park is a rectangle. What are the coordinates of the park's fourth vertex? (pp. P279–P280)

- (A) (5, 9)
- (B) (9, 5)
- (C) (5, 15)
- (D) (9, 15)

11. A window at an art gallery is shaped like a parallelogram. The base measures 1.2 meters and the height measures 0.8 meters. What is the area of the window? (pp. P281–P282)

- (A) 0.48 sq m
- (B) 0.96 sq m
- (C) 1.92 sq m
- (D) 2.0 sq m

12. The ages of the members of the Chess Club are given below. What is the median age? (pp. P283–P284)

13, 9, 10, 9, 14, 13, 8, 9

- (A) 9
- (B) 9.5
- (C) 10
- (D) 10.5

13. The histogram shows the ages of runners in a half-marathon. How many runners are between the ages of 21 and 40? (pp. P289–P290)

- (A) 24
- (B) 30
- (C) 42
- (D) 54

