

Name _____

Choose the correct answer.

1. The inequality $h \geq 54$ represents the height requirement, in inches, for people who wish to ride the Whirlybird at Grover Beach Park. Which height h does **not** satisfy the requirement?

- (A) 50
- (B) 54
- (C) 62
- (D) 74

2. A sign in an elevator says “Maximum total weight 800 pounds.” Which inequality represents all the possible weights w that are allowed on the elevator?

- (A) $w > 800$
- (B) $w \leq 800$
- (C) $w \geq 800$
- (D) $w < 800$

3. In the last three basketball games, Paula has scored 21, 25, and 15 points p . Which inequality does **not** describe the numbers of points she has scored?

- (A) $p > 21$
- (B) $p \leq 25$
- (C) $p < 30$
- (D) $p \geq 10$

4. The number of cans that each student in Mrs. Silva’s class collected for the canned food drive is shown.

Number of Cans Collected
18, 27, 12, 22, 13, 29, 17, 22, 24, 14, 28, 17

Which of the following are reasonable intervals for a histogram of the data?

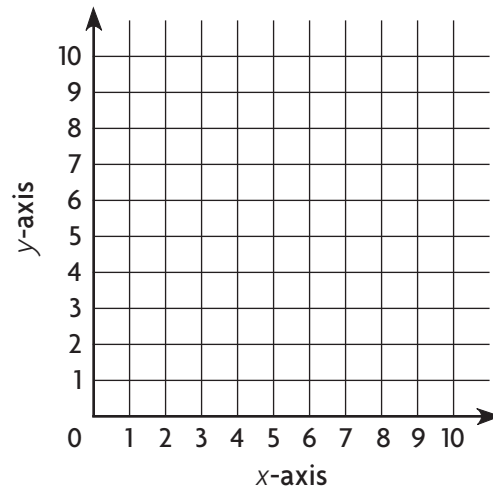
- (A) 6–10, 11–15, 16–20, 21–25
- (B) 11–15, 16–20, 21–25, 26–30
- (C) 16–20, 21–25, 26–30, 31–35
- (D) 6–10, 11–15, 16–20, 21–25, 26–30, 31–35



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5. The intervals in a histogram are 1–5, 6–10, 11–15, and 16–20. Which of the following could be the data in the histogram?
- (A) 5, 6, 6, 6, 9, 9, 14, 21, 24, 25
 - (B) 0, 2, 2, 5, 7, 9, 15, 15, 16, 17
 - (C) 2, 4, 5, 6, 6, 11, 13, 13, 16, 17
 - (D) 3, 7, 8, 9, 9, 13, 14, 15, 19, 26
6. Which situation is **best** represented by the integer -45?
- (A) earnings of \$45 at a job
 - (B) spending \$45 on clothes
 - (C) gaining 45 points in a game
 - (D) an elevation of 45 feet above sea level

7. If the integer +50 represents an elevation of 50 feet above sea level, what does 0 represent?
- (A) an elevation of 100 feet above sea level
 - (B) an elevation of 50 feet below sea level
 - (C) sea level
 - (D) an elevation of 25 feet below sea level
8. On a coordinate grid, the vertices of Marie’s garden are at (0, 8), (5, 2), (0, 2), and (5, 8). What is the shape of the patio?

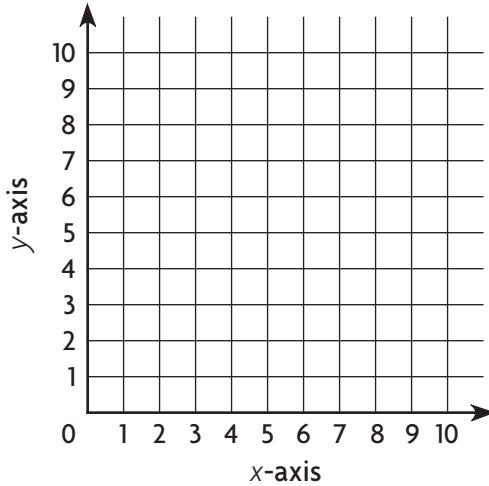


- (A) rectangle
- (B) trapezoid
- (C) square
- (D) rhombus



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9. A parallelogram is drawn on a coordinate grid. Three of the coordinates are (3, 6), (5, 3), and (7, 5). Which could **not** be the coordinates of the fourth vertex?



- (A) (1, 4)
(B) (6, 1)
(C) (5, 8)
(D) (9, 2)
10. A traffic sign is drawn on a coordinate grid. The vertices of the sign are (2, 2), (5, 8), (0, 5), (5, 2), (2, 8), and (7, 5). What is the shape of the sign?
- (A) rectangle
(B) pentagon
(C) hexagon
(D) octagon

11. The prices of 8 sweaters, in dollars, are given.

Sweater Prices (dollars)
30, 41, 36, 31, 28, 43, 28, 35

What is the median of the data?

- (A) \$28
(B) \$33
(C) \$34
(D) \$35

12. The number of bird species seen by seven birdwatchers is given.

Number of Bird Species
29, 27, 36, 40, 36, 27, 35

What is the mode of the data?

- (A) 27 and 36
(B) 27
(C) 36
(D) no mode

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Write the correct answer.

- 13.** Greg wants to find the median of a set of 9 data items. First, he ordered the items from least to greatest. What should he do next?

- 14.** The basketball team practiced for h hours. The baseball team practiced for 3 more hours than the basketball team. Write an expression that represents the number of hours that the baseball team practiced.

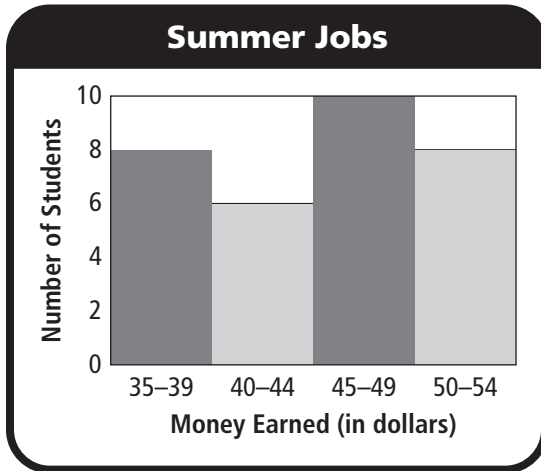
- 15.** The expression $w \times 7$ gives the number of days in w weeks. What is the value of the expression when $w = 14$?

- 16.** There are 3 feet f in a yard. Write an expression that represents the number of yards that are equivalent to f feet.



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For 17–19, use the histogram.

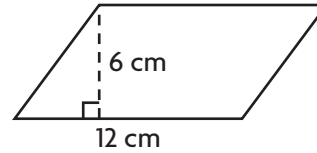


17. Which interval has the **greatest** frequency?

18. How many students earned **more than** \$44?

19. How many students earned between \$40 and \$44?

20. Ursula designed this parallelogram for a T-shirt logo.



What is the area of the logo?

21. A box contains 12 tiles. Each tile is shaped like a parallelogram. Each tile has a base of 9 inches and a height of 5 inches. What is the total area of all the tiles?

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- 22.** Two parallelogram-shaped pennants have the same area. One has a base of 15 inches and a height of 12 inches. The other has a base of 18 inches. What is its height?

- 23.** Val’s test scores are shown.

Val’s Test Scores
89, 93, 91, 93, 98, 79, 90, 95, 82

What was her average score?

- 24.** The table gives the number of points Mark scored in his team’s first 10 basketball games.

Number of Points Scored					
Games 1–5	8	8	11	7	6
Games 6–10	8	12	11	10	14

How did Mark’s average in Games 6–10 compare with his average in Games 1–5?

- 25.** The costs of 6 printers, in dollars, are given. What is the average price?

Cost of Printers (dollars)
163, 159, 156, 176, 159, 195

