

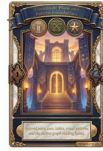
Coordinate Plane and Pattern Foundations

Ordered pairs, axes, tables, visual patterns, and the earliest graph-reading habits.

Name _____ Date _____

32 main 2-up grid 2 pages

Completion Reward

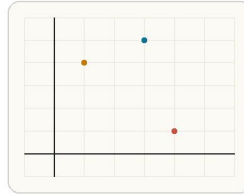


Shown here as a small pack artifact, not a preview destination.

1. What ordered pair names the origin?

- A. (1, 0)
- B. (0, 1)
- C. (-1, -1)
- D. (0, 0)

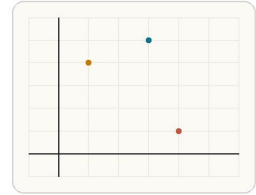
2. Point C is shown on the grid. Which ordered pair names point C?



Move horizontally first, then vertically.

- A. (5, 3)
- B. (3, 5)
- C. (3, -5)
- D. (0, 5)

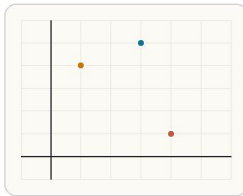
3. In the coordinate plane shown, what is the x-coordinate of point A?



Move horizontally first, then vertically.

- A. 1
- B. 4
- C. 0
- D. 5

4. In the coordinate plane shown, what is the y-coordinate of point B?



Move horizontally first, then vertically.

- A. 4
- B. 1
- C. 3
- D. 0

5. Which table shows a constant increase of 2 each time x increases by 1?

- A. x: 0,1,2 ; y: 3,5,7
- B. x: 0,1,2 ; y: 3,6,10
- C. x: 0,1,2 ; y: 3,4,8
- D. x: 0,1,2 ; y: 3,3,5

6. Which axis is horizontal?

- A. y-axis
- B. x-axis
- C. Both axes
- D. Neither axis

7. Which ordered pair names the origin?

- A. (1, 0)
- B. (0, 0)
- C. (0, 1)
- D. (-1, -1)

8. Which point lies in Quadrant II?

- A. (-3, 4)
- B. (3, 4)
- C. (-3, -4)
- D. (3, -4)

9. In the ordered pair (-2, 6), which value is the x-coordinate?

- A. -2
- B. 6
- C. 4
- D. 0

10. Which point lies on the x-axis?

- A. (5, 0)
- B. (0, 5)
- C. (5, 5)
- D. (0, 0.5)

11. Which point lies on the y-axis?

- A. (-4, 0)
- B. (-4, -4)
- C. (0, -4)
- D. (4, -4)

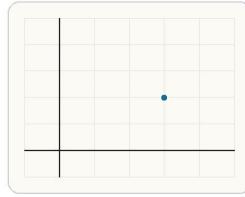
12. In a table, what usually plays the role of the input?

- A. y
- B. Both at the same time
- C. Neither one
- D. x

13. Which pattern is multiplicative?

- A. 3, 6, 9, 12
- B. 3, 6, 12, 24
- C. 2, 5, 8, 11
- D. 7, 9, 11, 13

14. Which ordered pair means move 3 units right and 2 units up from the origin?



Read x first from left to right, then y from down to up.

- A. (2, 3)
- B. (-3, 2)
- C. (3, -2)
- D. (3, 2)

15. If the rule is add 2 each time starting at 1, what are the first three outputs?

- A. 1, 2, 4
- B. 1, 3, 5
- C. 2, 4, 6
- D. 1, 4, 7

16. How far apart are (2, 5) and (7, 5) horizontally? Answer with a number.

17. How far apart are (-1, 2) and (-1, 8) vertically? Answer with a number.

18. A table has x-values 1, 2, 3 and y-values 5, 8, 11. What is the pattern in y?

- A. Multiply by 3 each time
- B. Add 3 each time
- C. Subtract 3 each time
- D. Add 2 each time

19. A rule adds 4 to the input. What is the output when the input is 6? Answer with a number.

20. A rule says multiply the input by 3 and then subtract 1. What is the output when the input is 5? Answer with a number.

21. What is the first move when plotting (-4, 2)?

- A. Move 2 units up from the origin
- B. Move 4 units right from the origin
- C. Move 2 units down from the origin
- D. Move 4 units left from the origin

22. A student sees a point 2 right and 5 up, and writes (5, 2). What is the mistake?

- A. They should have used negative numbers
- B. They should have used only one coordinate
- C. They should have written (7, 0)
- D. They reversed x and y

23. A student says the point (4, -3) means go down 4 and right 3. What is the mistake?

- A. Coordinates are read horizontally first and vertically second.
- B. You should always go vertically first.
- C. The point should be reflected across the origin first.
- D. Negative values only affect x-coordinates.

24. The pattern is 4, 7, 10, 13, ... What is the next number? Answer with a number.

25. A rule says multiply the input by 2. What is the output when the input is 6? Answer with a number.

26. A table shows $x = 3$ and $y = 9$ in the same row. If x is 3, what is the output? Answer with a number.

27. The pattern is 4, 7, 10, 13. What is the next term? Answer with a number.

28. A rule doubles the input. What input gives the output 14? Answer with a number.

29. A table shows outputs 2, 5, 8, 11. What is the next output? Answer with a number.

30. Which pattern could come from adding the same amount each time?

- A. 2, 4, 8, 16
- B. 3, 4, 8, 15
- C. 1, 1, 2, 3
- D. 2, 5, 8, 11

31. How far apart are the points (1, 4) and (5, 4)? Answer with a number.

32. How far apart are the points (3, 2) and (3, 7)? Answer with a number.