School786
AN ONLINE SCHOOL

Name: Due Date: Teacher: Parent Sign:

1. Plot the points (0,0), (1,1), (2,2), (3,3). What is the next ordered pair in the pattern?

2. Plot the points (1,0), (2,0), (3,0), (4,0). What is the next ordered pair?

3. Plot the points (0,2), (1,2), (2,2), (3,2). What is the next ordered pair?

4. Plot the points (0,0), (1,2), (2,4), (3,6). What are the next two ordered pairs?

5. Plot the points (1,1), (2,3), (3,5), (4,7). What is the rule for y in terms of x? Give the next ordered pair.

6. Plot the points (0,5), (1,4), (2,3), (3,2). What are the next two ordered pairs?

7. Plot the points (2,2), (3,4), (4,6), (5,8). What is the next ordered pair?

8. Which ordered pairs make a vertical line at x = 3 for y = 0, 1, 2, 3? List them.

9. Which ordered pairs make a horizontal line at y = 4 for x = 0, 1, 2, 3? List them.

10. Plot (0,0), (1,3), (2,6), (3,9). What is the next ordered pair?

11. Plot (0,1), (1,2), (2,3), (3,4). What is the 6th ordered pair in the pattern? (Count (0,1) as 1st.)

12. Plot (1,2), (2,4), (3,6), (4,8). If x increases by 1, how does y change? Give the 7th ordered pair.

13. Plot (0,0), (1,0), (2,1), (3,1), (4,2), (5,2). What is the pattern of y-values? What is (6,?) next ordered pair?

14. Plot (0,0), (1,1), (2,4), (3,9). What is the next ordered pair?

15. Which of these ordered pairs are on a straight line: (0,0), (1,2), (2,4), (3,7)? List the ones that fit the linear pattern.

16. Given points (1,2), (2,4), (3,6), is the relationship linear? If so, what is the slope?

17. Given points (0,5), (1,3), (2,1), (3,-1), is the relationship linear? What is the slope?

18. On a coordinate plane, points follow the rule y = x + 2. What is y when x = 5?

19. On a coordinate plane, points follow the rule y = 2x - 1. What is y when x = 4?

20. The points (2,7), (3,10), (4,13) follow a rule. What is the rule and what is y when x = 6?

21. The points (0,0), (1,4), (2,8), (3,12) follow a rule. What is y when x = 10?

22. Points on a graph are (1,3), (2,6), (3,9). What is the constant of proportionality between x and y?

23. Points are (2,1), (4,2), (6,3). Write the rule y = ?x

24. The plotted points go (0,0), (1,-1), (2,-2), (3,-3). What is the slope?

25. The plotted points are (1,5), (2,7), (3,9). What is the equation in form y = mx + b?

26. On the coordinate plane, a pattern shows y decreases by 2 as x increases by 1. If (0,8) is a point, what are the next two points?

27. Points (0,2), (2,4), (4,6), (6,8) are plotted. What is y when x = 10?

28. Points follow y = 3x + 1. List the ordered pairs for x = 0,1,2,3.

29. Points follow y = -x + 4. List y for x = 0,1,2,3.

30. Given plotted points (1,4), (2,7), (3,10), what is the pattern for y? Give y when x = 0.

31. Given ordered pairs (1,2), (2,4), (3,6), what rule relates x to y? Write y = ...

32. Given ordered pairs (1,3), (2,5), (3,7), (4,9), find y as a function of x.

33. Given ordered pairs (1,4), (2,8), (3,12), what is the multiplier from x to y?

34. Given ordered pairs (2,5), (4,11), (6,17), what rule relates x to y? (Assume linear.)

35. Given ordered pairs (0,6), (1,9), (2,12), determine y = ?x + ?

36. Given ordered pairs (1,1), (2,4), (3,9), (4,16), what is pattern for y in terms of x?

37. Given ordered pairs (1,0), (2,1), (3,2), (4,3), what is y in terms of x?

38. Ordered pairs: (1,5), (2,10), (3,15). What is the rule? What is y when x = 0?

39. Ordered pairs: (0,3), (1,6), (2,9), (3,12). What is the equation relating x and y?

40. Ordered pairs: (1,2), (2,5), (3,10). Is the relationship linear? If not, describe the pattern for y.

41. Graph the sequence where x = 1,2,3,4 and y begins 2,4,6,8. Write the first 6 ordered pairs.

42. Graph the sequence where x increases by 1 and y = 5x. List x = 0 to 4 ordered pairs.

43. Create the first five ordered pairs for the sequence y = 2x + 3 with x starting at 0.

44. Create the first five ordered pairs for y = -x + 5 with x = 0,1,2,3,4.

45. Sequence: x = 1,2,3,4,5 and $y = x^2$. List the five ordered pairs.

46. Sequence: x = 0,1,2,3,4 and y = 3x - 1. List the ordered pairs.

47. Sequence where x = 1,2,3,4 and y doubles each time starting at y = 1. List the ordered pairs.

48. Sequence rule: y = x + x (i.e., y = 2x). List ordered pairs for x = 1 to 6.

49. Sequence rule: y = 4x - 2. List ordered pairs for x = 1,2,3.

50. Sequence: Start at (0,0). Each step increase x by 1 and y by 3. List the first 6 ordered pairs.