

# Analyzing Pattern Relationships and Graphing on the Coordinate Plane

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5th Grade Math Practice

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Solve each problem. Show your work when needed.

1.  $3/4 + 1/2 = \underline{\hspace{2cm}}$

2.  $12.5 - 4.75 = \underline{\hspace{2cm}}$

3. A pattern starts at (0,0) and increases by (2,3) for each step. What are the coordinates after 4 steps?

\_\_\_\_\_

4. What number comes next? 2, 4, 8, 16, \_\_\_\_\_

5. Circle the greater number: 3//3:

5    or     2

6. The point (3, 5) is in the first quadrant of the coordinate plane.

True     False

7. If a line connects (1, 2) to (1, 5), what is the length of the line segment?

\_\_\_\_\_

8.  $5 \times 1/3 = \underline{\hspace{2cm}}$

9. Emma bought 2.5 meters of ribbon and cut off 0.75 meters. How much ribbon does she have left?

\_\_\_\_\_

10.  $7 - 2/5 = \underline{\hspace{2cm}}$

11. Calculate the volume of a rectangular prism with length 4 cm, width 3 cm, and height 5 cm. \_\_\_\_\_

12. A pattern of ordered pairs is: (1,3), (2,6), (3,9). What is the next ordered pair?

\_\_\_\_\_

13.  $15 + 2.35 = \underline{\hspace{2cm}}$

14. What number comes next in this pattern? 10, 20, 30, \_\_\_\_\_

15. If you plot the points (2, 3) and (2, 7), what is the vertical distance between them?

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**Answer Key**

1. 5/4 2. 7.75 3. (8,12) 4. 32 5. 2/3 6. True 7. 3 8. 5/3 9. 1.75 10. 6.6 11. 60 12. (4,12) 13. 17.35 14. 40 15. 4