

# Pattern Challenges and Algebra Readiness

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5th Grade Math Practice

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

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

Solve each problem. Show your work when needed.

1.  $5 + 3 = \underline{\quad}$

2.  $12 - 4 = \underline{\quad}$

3.  $\frac{3}{4} + \frac{1}{4} = \underline{\quad}$

4.  $2.5 \times 4 = \underline{\quad}$

5. Lily has 3 patterns of beads, each with 4 beads. How many beads does she have in total?

\_\_\_\_\_

6. A pattern starts with the numbers 2, 4, 6. What is the next number?

\_\_\_\_\_

7. Circle the greater number:

15

or

20

8. What number comes next? 1, 3, 5, \_\_\_\_\_

9. All patterns must use the same number. True or False?

True  False

10.  $8 \times 2 = \underline{\quad}$

11.  $20 \div 4 = \underline{\quad}$

12. If you have 10 apples and give away  $\frac{2}{5}$  of them, how many apples do you have left?

\_\_\_\_\_

13. A pattern has 5, 10, 15, and next is \_\_\_\_\_.

\_\_\_\_\_

14.  $\frac{1}{2} \times 4 = \underline{\quad}$

15. If a pattern alternates between 2 and 3, what is the 6th number in the pattern?

\_\_\_\_\_

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Answer Key

1.8 2.8 3.1 4.10 5.12 6.8 7.20 8.7 9.False 10.16 11.5 12.8 13.20 14.2 15.2