

# Exploring Variables and Number Patterns

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4th Grade Math Practice

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

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

Solve each problem. Show your work when needed.

1. If  $x = 7$ , what is  $3x + 2$ ?

2. Emma has  $x$  apples. She buys 5 more. Write an expression for the total number of apples.

\_\_\_\_\_

3. Circle the greater number:  $3x$  or  $2x + 6$ , when  $x = 4$

4. What number comes next? 2, 4, 6, \_\_\_\_\_

5. If  $x = 3$ , then  $2x + 1 = 7$

True  False

6. What is 12 divided by 4?

7. A rectangle has a length of  $y$  and a width of 3. What is its area?

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8. Calculate  $15 \times 6$

9. Zoe had 10 candies. She gave away  $x$  candies. Write an expression for how many she has left.

\_\_\_\_\_

10. Circle the greater number:  $5y$  or 10 if  $y = 1$

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

12. The expression  $4x = 20$  has a solution  $x = 5$

True  False

13. If a pencil costs  $x$  dollars and you buy 4, how much do you spend?

\_\_\_\_\_

14. What is 144 divided by 12?

15. A garden has  $x$  flowers. If 7 more are planted, there will be  $x + 7$  flowers. How many flowers are there now?

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## Answer Key

1. 23 2.  $x + 5$  3. 3x 4. 8 5. True 6. 3 7. 3y 8. 90 9.  $10 - x$  10. 10 11. 7 12. True 13.  $4x$  14. 12 15.  $x$

