

# Unit 4: Equations and Expressions

## PRACTICE

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

Show your work where needed. Write each answer in simplest form. Notation: use ^ for exponents, / for fractions, × for multiply.

1. Evaluate the expression  $5x + 7$  when  $x = 8$ .

Answer: \_\_\_\_\_

2. Write  $4 \times 4 \times 4 \times 4 \times 4$  using an exponent.

Answer: \_\_\_\_\_

3. Evaluate  $2^5$ .

Answer: \_\_\_\_\_

4. Solve for  $x$ :  $x + 13 = 21$ .

Answer: \_\_\_\_\_

5. Solve for  $m$ :  $6m = 54$ .

Answer: \_\_\_\_\_

6. Solve for  $y$ :  $y/4 = 9$ .

Answer: \_\_\_\_\_

7. Evaluate the expression  $3(a + 2)$  when  $a = 5$ .

Answer: \_\_\_\_\_

8. Use the distributive property to find the value of  $6 \times 12$  by computing  $6(10 + 2)$ .

Answer: \_\_\_\_\_

9. Combine like terms:  $7k + 4k + 2$ .

Answer: \_\_\_\_\_

10. Solve for  $x$ :  $x - 15 = 27$ .

Answer: \_\_\_\_\_

11. Evaluate  $3^2 + 4^2$ .

Answer: \_\_\_\_\_

12. Solve for  $p$ :  $p/7 = 8$ .

Answer: \_\_\_\_\_