ALBERT

Name _____ Date _____

Writing and Evaluating Expressions Worksheet

Grade 6 · Common Core 6.EE.A.2

> Write, read, and evaluate expressions in which letters stand for numbers.

Practice

Builds the skill step by step.

1. Evaluate 5x when x = 7.

2. Evaluate n + 12 when n = 9.

3. Write an expression for "subtract y from 15."

4. Which expression means "the product of 4 and m"?

   A. 4 + m

   B. m − 4

   C. 4m

   D. m ÷ 4

5. Evaluate 30 ÷ k when k = 6.

6. Write an expression for "8 more than a number p."

7. Evaluate $3a - 4$ when $a = 5$.

8. In the expression $7x + 2$, what is the coefficient of x?

   A. 7

   B. 2

   C. x

   D. 9

9. Evaluate $2(w + 3)$ when $w = 4$.

10. How many terms are in the expression $6y + 3x - 5$?

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On Level

Grade-level practice.

1. Evaluate $4x^2$ when $x = 3$.

2. Use the formula $V = s^3$ to find the volume of a cube with side length $s = \frac{1}{2}$ foot.

3. Use the formula $A = 6s^2$ to find the surface area of a cube with side length $s = 4$ cm.

4. Which expression means "the quotient of a number n and 5, minus 2"?

   A. $5 \div n - 2$

   B. $n \div 5 - 2$

   C. $(n - 2) \div 5$

   D. $5n - 2$

5. Evaluate $3(x + y)$ when $x = 2$ and $y = 6$.

6. Write an expression for "twice the sum of a and 9."

7. Evaluate $12 - 2b + b^2$ when $b = 3$.

8. Evaluate $\frac{m}{4} + 1.5$ when $m = 10$.

9. In the expression $2(8 + 7)$, how can you describe it?

   A. A sum of two terms

   B. A product of two factors, where one factor is a sum

   C. A quotient

   D. A difference of 8 and 7

10. The cost of n movie tickets is 9n dollars. Evaluate the cost for 6 tickets.

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Challenge

Multi-step and word problems that stretch it.

1. Use the formula $P = 2l + 2w$ to find the perimeter of a rectangle with $l = 7.5$ m and $w = 4$ m.

2. Evaluate $(x + 3)^2 - 2x$ when $x = 5$.

3. A gym charges a $25 sign-up fee plus $15 per month. Write an expression for the cost of m months and find the cost for 8 months.

4. For which value of x does $4x - 7$ equal 13?

   A. 4

   B. 5

   C. 6

   D. 20

5. Evaluate $\frac{3a}{b} + b$ when $a = 4$ and $b = 6$.

6. Use $d = rt$ to find the distance when $r = 55$ miles per hour and $t = 3.5$ hours.

7. Ava says $3x^2 = 36$ when $x = 6$ because $3 \times 6 = 18$ and $18 \times 2 = 36$. What mistake did she make, and what is the correct value?

8. Write an expression for "the product of 5 and the difference of n and 2," then evaluate it for $n = 10$.

9. A rectangle's length is 3 more than twice its width w. Write an expression for the length and find it when $w = 6$ cm.

10. Evaluate $2x^3 - x^2 + 4$ when $x = 2$.