

DATE

PERIOD

Curated Practice Problem Set

Unit 6 Lesson 11 Cumulative Practice Problems

- 1. For each expression, use the distributive property to write an equivalent expression.
 - a. 4(x + 2)b. $(6 + 8) \cdot x$ c. 4(2x + 3)d. 6(x + y + z)
- 2. Priya rewrites the expression 8y 24 as 8(y 3). Han rewrites 8y 24 as 2(4y 12). Are Priya's and Han's expressions each equivalent to 8y 24? Explain your reasoning.
- 3. Select **all** the expressions that are equivalent to 16x + 36.
 - A. 16(x + 20)B. x(16 + 36)C. 4(4x + 9)D. 2(8x + 18)E. 2(8x + 36)
- 4. The area of a rectangle is 30 + 12x. List at least 3 possibilities for the length and width of the rectangle.



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5. Select **all** the expressions that are equivalent to $\frac{1}{2}z$.

A. z + zB. $z \div 2$ C. $z \bullet z$ D. $\frac{1}{4}z + \frac{1}{4}z$ E. 2z

(From Unit 6, Lesson 8.)

6. a. What is the perimeter of a square with side length:

3 cm? 7 cm? s cm?

b. If the perimeter of a square is 360 cm, what is its side length?

c. What is the area of a square with side length:

3 cm? 7 cm? s cm?

d. If the area of a square is 121 cm², what is its side length?

(From Unit 6, Lesson 6.)



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7. Solve each equation.			
$10 = \mathbf{4a}$	5b = 17.5	1.036 = 10c	
	0.6d = 1.8	15 = 0.1e	

(From Unit 6, Lesson 5.)

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