

Lesson 11 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.



- 5. Select **all** the expressions that are equivalent to $\frac{1}{2}z$.
 - A. z + z
 - B. $z \div 2$
 - C. $z \cdot z$
 - D. $\frac{1}{4}z + \frac{1}{4}z$
 - E. 2*z*

(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.)

7. Solve each equation.

$$10 = 4a$$

$$5b = 17.5$$

$$1.036 = 10c$$

$$0.6d = 1.8$$

$$15 = 0.1e$$

(From Unit 6, Lesson 5.)