

## 6.2 Class Assignment

Evaluate the expression when  $a = 4$ ,  $b = -6$ , and  $c = 2$ .

1.  $3a - 10$

2.  $2b - 3c$

3.  $a^2 - 2b + c$

Write the phrase as an expression.

4. 16 subtracted from a number  $a$

5. 10 times a number  $b$

6. The expression  $10m + 20$  represents the cost in dollars of a streaming service for  $m$  months.

a. What do the 10 and 20 represent in the expression?

b. Find the total cost for 1 year.

Evaluate the expression. Write fractions in simplest form.

7.  $\left(1\frac{1}{2} \cdot \frac{2}{3} \div 1\frac{1}{8}\right)^2$

8.  $-2.2^2 \cdot 1.5 - 3.87$

9.  $-2\frac{1}{5} \cdot \left|5\frac{1}{8} - 5\frac{3}{16}\right|$

Write the algebraic expression as a phrase.

10.  $z + 4$

11.  $-3y$

12.  $10 - x$

13.  $4 + 2w$

14. To rent a car, the cost is \$50 per day and there is a \$25 rental fee.

a. Write an expression that represents the cost, in dollars, to rent the car for  $d$  days.

b. How much do you pay if you rent the car for 9 days?

**15.** The expression  $60a + 40c$  represents the cost for  $a$  adults and  $c$  children to attend an amusement park.

**a.** What is the cost for each adult and each child?

**b.** What is the cost for 2 adults and 4 children?

**Write the expression using exponents.**

**16.**  $a \cdot a \cdot a \cdot a \cdot a$

**17.**  $-9 \cdot c \cdot c \cdot c$

**Identify the terms, coefficients, and constants.**

**18.**  $3x^2 + x + 6$

**19.**  $-c^2 - 8c$