

**Challenge Practice**

For use with pages 5–9

Evaluate the expression when  $x = 3.3$ ,  $y = 2.5$ , and  $z = 8$ .

1.  $x + y + z$

2.  $2zxy$

3.  $z + x + y - z$

Evaluate the expression when  $a = 8.1$ ,  $b = 6$ , and  $c = 4.7$ .

4.  $ab + bc$

5.  $ab - bc$

6.  $\frac{20a}{b}$

Evaluate the expression when  $r = 18$ ,  $s = 45$ , and  $t = 1.4$ .

7.  $\frac{7r}{t}$

8.  $t(r + s)$

9.  $t(s - r)$

10. The cost of a rope at a hardware store depends on its length in feet and its price per foot. Write a variable expression using 4 variables to represent the cost of 2 ropes that have different lengths and prices per foot. Explain what each variable represents. Use the expression to evaluate the total cost to buy a 28-foot rope at \$.23 per foot and a 36-foot rope at \$.39 per foot.