

### Chapter 1 End of Chapter Assessment Review

1.  $5^6$  means the same thing as:
  - a.  $5 + 5 + 5 + 5 + 5 + 5$
  - b.  $5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5$
  - c.  $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$
  - d.  $5 \bullet 6$
2. What is 100 written as the square of a number?
  - a.  $10^2$
  - b.  $2^{10}$
  - c.  $10^3$
  - d.  $3^{10}$

**Evaluate the expression.**

3.  $\frac{46 - 11}{5}$ 
  - a. 7
  - b. 7 R2
  - c. 5
  - d. 6 R4
4.  $3 \times 6 + 6 - 4 \div 2$
5.  $\frac{14 + 30}{13 - 2}$
6.  $(5 \times 9) - 3 \times 2 + 5$

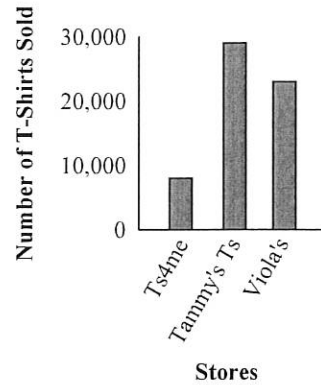
**Estimate the sum or difference on #7-8.**

7.  $714 - 389$ 
  - a. 500
  - b. 400
  - c. 300
  - d. 1100
8.  $8968 + 780$
9. Simplify  $35 + 31 + 55 + 29$ .
10. Estimate the difference by rounding to the thousands place.
 
$$\begin{array}{r} 5,092 \\ - 1,271 \\ \hline \end{array}$$

11. Estimate the sum by rounding to the thousands place.

$$\begin{array}{r} 9,255 \\ + 1,947 \\ \hline \end{array}$$

12. Estimate the average number of T-shirts sold.



13. Write the expression  $7 \times 7 \times 7 \times 7 \times 7$  in exponential form.
14. Find the value of  $3^4$ .
15. Simplify the expression  $19 + 15 \div 3$ .
16. Simplify the expression  $16 \div (3 + 5) \cdot 3^2 - 1$ .
17. Simplify the expression  $21 \div (1 + 2) \cdot 4^2 - 1$ .
18. Simplify the expression. Show your work.  
 $41 + 4^3 \cdot 4 - (6 \cdot 2)$
19. Simplify  $2 \cdot 7 \cdot 10$ .
20. Identify a pattern in the arithmetic sequence. Name the next three terms.  
7, 26, 45, 64, 83, 102, 121, ...
21. Estimate the difference by rounding to the thousands place.
 
$$\begin{array}{r} 8,491 \\ - 4,448 \\ \hline \end{array}$$

Name: \_\_\_\_\_

22. Estimate the sum by rounding to the thousands place.

$$\begin{array}{r} 5,832 \\ + 3,566 \\ \hline \end{array}$$

23. Find the value of  $8^2$ .
24. Find the missing terms in the sequence: \_\_\_\_\_, 64, 49, 36, \_\_\_\_\_, 16, 9, ...
25. Find the value of  $8^3$ .
26. Use the Distributive Property to find the product of  $7 \cdot 46$ . Show your work.

**Find the value of the power.**

27. three to the fourth power
28. two to the sixth power

**Tell which power, if any, has the greater value.**

29.  $12^2$  or  $6^3$
30. Consider the expression:  $(28 \div 4) \cdot 5 - 6 + 4^2$ . Explain the order of operations you would use to simplify this expression. Then simplify it.