

# Practice 2-8

Exponents

Write each expression using an exponent. Name the base and the exponent.

1.  $3 \times 3 \times 3 \times 3$

2.  $7 \times 7 \times 7 \times 7 \times 7 \times 7$

3.  $9 \times 9 \times 9$

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\_\_\_\_\_

Write each number in expanded form using powers of 10.

4. 98,364

5. 20,351,401

6. 875,020

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Simplify each expression.

7.  $9^2$

8.  $6^4$

9.  $5^3$

10.  $7^3$

\_\_\_\_\_

11.  $156 + (256 \div 8^2)$

12.  $32 + 64 + 2^3$

13.  $53 + 64 \div 2^3$

14.  $1,280 - 5 \times 6^2$

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Find each answer to complete the puzzle.

**ACROSS**

**DOWN**

1.  $(3 \times 4)^2$

1.  $8 \times (5 + 4) \div 6$

3.  $60 \div (8 + 7) + 11$

2.  $700 \times (2 + 4) \div (17 - 7)$

4.  $2^2 \times 5^2 + 106$

3.  $11 \times (18 - 3)$

5.  $4 + 7 \times 2^3$

5.  $60 + (5 \times 4^3) + 2^2 \times 55$

6.  $7^2 + 4$

7.  $7^2 - 7 \times 2$

9.  $48 \div 4 \times 5 - 2 \times 5$

8.  $(4^2 - 4) \times 10$

10.  $(4 + 3) \times (2 + 1)$

9.  $2^4 \times 2^5$

12.  $12 \times (30 + 37)$

11.  $(3 + 2) \times (6^2 - 7)$

13.  $5 \times (9 + 4) + 362 \div 2$

12.  $3^4 + 405 \div 81$

14.  $29 \times 18 \div 9$

1		2		3	
		4			
	5			6	7
			8		
9			10	11	
		12			
13				14	