

- **1.** Write $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$ with an exponent.
- **2.** Write $6 \times 10 \times 10 \times 10 \times 10$ with an exponent.
- **3.** How many zeros are in the standard form of 10⁷? Write this number in standard form.

In **4–14**, find each product. Use patterns to help.

4. $4 \times 10^{1} =$	5. 7 × 10) =	6. $5 \times 10^{1} =$
$4 \times 10^2 =$	7 × 10	7 × 100 =	
$4 \times 10^{3} =$	7 × 1,000 =		$5 \times 10^3 =$
$4 \times 10^4 =$	7 × 10,000 =		$5 \times 10^4 =$
7. 3 × 10 ¹	8. 2 × 100	9. 3 × 10 ⁴	10. 1,000 × 9

- **11.** 6×10^2 **12.** 3×10^3 **13.** $10,000 \times 2$ **14.** 8×10^5
- **15.** Explain how to find the number of zeros in the product for Exercise 14.

 $90,000 = 9 \times 1,000$ $90,000 = 9 \times 1,000$ $90,000 = 9 \times 10^4$ $90,000 = 9 \times 10^5$ $90,000 = 9 \times 10^{6}$

16. Maria saw 2×10^1 dogs in the park on Saturday. She saw twice as many dogs on Sunday as she saw on Saturday. How many dogs did she see over the two days?

18. enVision[®] STEM There are 2,000 pounds

in a ton. How can you write 2,000

with an exponent?

Scientific notation is

written as one digit times a power of ten.

19. Kay buys 12 pounds of apples. Each pound costs \$3. If she gives the cashier two \$20 bills, how much change should she receive?

17. Number Sense In which place is the

digit in the number 5,341 that would

values of the two numbers compare?

be changed to form 5,841? How do the

20. Model with Math James practiced piano for 48 minutes. Alisa practiced for 5 times as long as James. How many minutes did Alisa practice? How many minutes in all did James and Alisa practice? Write an equation to model your work.

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correct answer.

? 5 times 48 Alisa --> 48 48 48 48 as long James — 48

Assessment Practice

- **22.** Choose all the equations that are true.
 - $10 \times 10 \times 10 \times 10 \times 10 = 100,000$
 - $10 \times 10 \times 10 \times 10 \times 10 = 50$
 - $10 \times 10 \times 10 \times 10 \times 10 = 50,000$
 - $10 \times 10 \times 10 \times 10 \times 10 = 10^5$
 - $10 \times 10 \times 10 \times 10 \times 10 = 50,000$

23. Choose all the equations that are true.