

- **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 × 100 =		$5 \times 10^2 =$
$4 \times 10^{3} =$	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.

- **22.** Choose all the equations that are true. $10 \times 10 \times 10 \times 10 \times 10 = 100,000$ $90,000 = 9 \times 1,000$ $10 \times 10 \times 10 \times 10 \times 10 = 50$ $90,000 = 9 \times 1,000$ $90,000 = 9 \times 10^4$ $10 \times 10 \times 10 \times 10 \times 10 = 50,000$ $90,000 = 9 \times 10^5$ $10 \times 10 \times 10 \times 10 \times 10 = 10^5$ $10 \times 10 \times 10 \times 10 \times 10 = 50,000$ $90,000 = 9 \times 10^{6}$ Topic 1 Lesson 1-1
- **23.** Choose all the equations that are true.

5 times

as long

48

48

 \odot

Assessment Practice

Alisa -->

James —

48

48

48

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.

?

48

20. Model with Math James practiced piano for 48 minutes. Alisa practiced for 5 times

16. Maria saw 2×10^1 dogs in the park on

on Sunday as she saw on Saturday.

two days?

How many dogs did she see over the

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

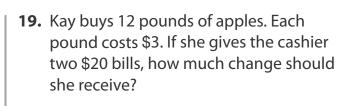
in a ton. How can you write 2,000

with an exponent?

Scientific notation is

written as one digit times a power of ten.

Saturday. She saw twice as many dogs



21. Higher Order Thinking George said that 6×10^3 is 180. Do you agree or disagree? If you disagree, explain the mistake that he made and find the correct answer.

17. Number Sense In which place is the digit in the number 5,341 that would be changed to form 5,841? How do the values of the two numbers compare?