

Ready® Mathematics**Lesson 2 Quiz****Solve the problems.**

- 1** Use place-value reasoning and patterns to write numbers that match the multiplication problem to the right of each table row.

Ones	.	Tenths	Hundredths	Thousandths	
0	.	0	0	7	
_____	.	_____	_____	_____	0.007×10
_____	.	_____	_____	_____	$0.007 \times 10 \times 10$
_____	.	_____	_____	_____	$0.007 \times 10 \times 10 \times 10$

- 2** Sabrina wants to use powers of ten to write numbers in different forms. She wrote these statements. Decide whether each of her statements is true or false.

Choose *True* or *False* for each statement.

- a. $100 = 10$ to the third power True False
- b. $10 \times 10 \times 10 = 1,000$ True False
- c. 10 to the fourth power = $10 \times 10 \times 10 \times 10$ True False
- d. $2 \times 10 = 2 \times 10^1$ True False
- 3** Caleb claims that when you multiply a number by 10, you can just write a 0 at the right end of the number. Caleb gives the example 6×10 to prove his claim is always true. Noah does not agree with Caleb. He gives the example 0.6×10 to prove that Caleb's claim is not always true.

Who is correct? Explain your answer.



Lesson 2 Quiz continued

4 Chang wants to practice multiplying numbers and powers of 10. He decides to use the shorthand form of powers of 10 in his expressions.

Part A

Chang makes a table to show different ways to write powers of 10.

Fill in the missing information in Chang’s table.

Standard Form	Product of Tens	Shorthand
1,000	$10 \times 10 \times 10$	10^3
_____	$10 \times 10 \times 10 \times 10$	_____
_____	_____	10^5

Part B

Chang uses the shorthand form to multiply decimals and powers of 10.

What is each product?

$0.5 \times 10^5 =$ _____

$0.05 \times 10^5 =$ _____

5 Jayla multiplies 8.0 by 10^4 and says the product is 8.0000.

Is Jayla correct or incorrect? Fill in the blanks to explain.

When you multiply by a power of ten, the decimal point moves _____ place(s) to the _____ for every power of ten. In the expression 8.0×10^4 , the power of ten is _____. To multiply 8.0×10^4 , the decimal point needs to move _____ place(s) to the _____. The product of 8.0×10^4 is _____. Jayla is _____.

