

Multiplying Numbers Ending in Zeros

Name: _____

Class: _____

Date: _____

When you multiply numbers that have *final zeros*, you can use this shortcut:

Multiply the numbers by using only the digits that are not zeros.
Then write as many final zeros in the product as there are zeros
in the numbers being multiplied.

Example 1 Juan sold an average of \$8,000 in merchandise each week. How much merchandise would he sell in 50 weeks?

Think $8 \times 5 = 40$

$$\underline{8000} \times \underline{50} = \underline{400,000}$$

3 zeros + 1 zero = **4 zeros**

Juan sold \$400,000 in merchandise in 50 weeks.

Example 2 Better Builders, Inc. had 32,000 crates of parts. Each crate held 1,600 parts. How many parts did Better Builder have?

32	000	3 zeros
× 16	00	2 zeros
192		3 + 2 = 5 zeros
32		
512	00000	5 zeros

The Better Builders, Inc. had 51,200,000 parts.

Practice

Find each product.

1. $900 \times 70 =$ _____

2. $18,000 \times 20 =$ _____

3. $9,300 \times 500 =$ _____

4. $12,000 \times 600 =$ _____

5. $70,000 \times 160 =$ _____

6. $810,000 \times 4,200 =$ _____

7. Metro Bagels sold an average of 1,800 bagels every day in June.
How many bagels did they sell in June? _____

8. A car dealership sold 120 new cars last month. The average price
was \$ 21,000. What was the total dollar value of car sales last month? _____

9. When Gloria started her business, her gross sales in 2005 were
\$8,300. Gloria expanded her business and advertised on the Internet.
In 2009 her gross sales were 300 times the 2005 gross sales. What
were Gloria's gross sales in 2009? _____

10. The Williams Corporation paid \$1,500,000 in salaries last year. The
company's gross sales were 40 times the salaries paid. What were
the company's gross sales last year? _____