



5. Consider the expression shown.

$$1.056 \times 10^3$$

a. How does the exponent help you think about shifting the digits in the first factor to find the product?

b. Find the product.

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6. Consider the expression shown.

$$2.7 \div 10^2$$

a. How does the exponent help you think about shifting the digits in the dividend to find the quotient?

b. Find the quotient.

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Find the product or quotient and write it in standard form.

7.  $0.327 \times 10 =$  \_\_\_\_\_

8.  $5.04 \div 10 =$  \_\_\_\_\_

9.  $1.68 \times 10^2 =$  \_\_\_\_\_

10.  $0.3 \div 10^2 =$  \_\_\_\_\_

11.  $2.109 \times 10^3 =$  \_\_\_\_\_

12.  $45 \div 10^3 =$  \_\_\_\_\_

13. Mrs. Chan weighs a watermelon and a kiwi. She asks her class to write an equation to show the relationship between the weight of the watermelon and the weight of the kiwi.

Consider Sana's and Noah's equations.

**Sana's Way**

$$7.6 \div 100 = 0.076$$

**Noah's Way**

$$7.6 \times \frac{1}{100} = 0.076$$

<b>Fruit</b>	<b>Weight (kilograms)</b>
Watermelon	7.6
Kiwi	0.076

Sana and Noah use different operations, but both equations are correct. How?

Find the quotient. Then write a related multiplication equation with exponential form expressed as a fraction.

14.  $1.56 \div 10 = \underline{\hspace{2cm}}$

$$1.56 \times \frac{1}{10} = \underline{\hspace{2cm}}$$

15.  $6.2 \div 10^2 = \underline{\hspace{2cm}}$

$$6.2 \times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \underline{\hspace{2cm}}$$

16.  $23.5 \div 10^2 = \underline{\hspace{2cm}}$

$$23.5 \times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \underline{\hspace{2cm}}$$

17.  $908 \div 10^3 = \underline{\hspace{2cm}}$

$$908 \times \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \underline{\hspace{2cm}}$$