Are YOU Ready?

Complete these exercises to review skills you will need for this module.

Exponents

EXAMPLE
$$10^4 = 10 \times 10 \times 10 \times 10$$
$$= 10,000$$

Write the exponential expression as a product.
Simplify.

Write each exponential expression as a decimal.

1. 10^2 _____

2. 10^3 _____

3. 10^5 _____

4. 10^7 _____

Multiply and Divide by Powers of 10

EXAMPLE
$$0.0478 \times 10^5 = 0.0478 \times 100,000$$
$$= 4,780$$

Identify the number of zeros in the power of 10.
When multiplying, move the decimal point to the right the same number of places as the number of zeros.

$$37.9 \div 10^4 = 37.9 \div 10,000$$
$$= 0.00379$$

Identify the number of zeros in the power of 10.
When dividing, move the decimal point to the left the same number of places as the number of zeros.

Find each product or quotient.

5. 45.3×10^3

6. $7.08 \div 10^2$

7. 0.00235×10^6

8. $3,600 \div 10^4$

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9. 0.5×10^2

10. $67.7 \div 10^5$

11. 0.0057×10^4

12. $195 \div 10^6$

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