

## Topic A Quiz Prep (Lessons 1 – 6)

**Item 1:** Match exponential form to factors of ten.

$$10^3 = 10 \times 10 \times 10$$

$$10^3 = 1,000$$

$$10^5 = 10 \times 10 \times 10 \times 10 \times 10$$

$$10^5 = 100,000$$

**Item 2:** Which number has a digit 7 with the same value as the digit 7 when 27,320 is divided by 10?

A. 57,989

B. 58,789

C. 78,989

D. 98,987

$$27,320 \div 10 = 2,732$$

The value of the 7 digit after dividing is 700. The choice is B.

**Item 3:** Convert metric measurements.

$$53,700 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$$

$$53,700,000 \text{ mg}$$

$$8,754 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$$

$$8,754,000 \text{ mL}$$

$$62 \text{ km } 54 \text{ m} = \underline{\hspace{2cm}} \text{ m}$$

$$62,000 \text{ m} + 54 \text{ m} = 62,054 \text{ m}$$

**Item 4:** Find the value.

3 2 , 4 5 3

The value of the underlined 3 is \_\_\_\_\_

The value of the circled 3 is \_\_\_\_\_

Compare the digits 3 with statements of multiplication or division.

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**Item 5:** Find the value of the expression.

$$2,500 \times 10^3 = \underline{\hspace{2cm}} \quad 2,500,000$$

$$25,000 \div 10^3 = \underline{\hspace{2cm}} \quad 25$$

**Item 6:** Word Problem

The length of a room is 12 meters 14 centimeters.

What is the length of the room in centimeters?

1 meter = 100 centimeters

12 meters = 1200 centimeters

1,200 cm + 14 cm = 1,214 cm