Wrapping Up Multiplication and Division with Multi-Digit Numbers: End-of-Unit Assessment

1. Find the value of each product. Explain or show your reasoning.

a.

$$\begin{array}{r} 2\ 1\ 3 \\ \times\quad 5\ 4 \\ \hline \end{array}$$

b.

$$\begin{array}{r} 3\ 7\ 5 \\ \times\quad 4\ 7 \\ \hline \end{array}$$

2. The equation $83 \times 27 = 2{,}241$ is true. Select **all** true equations.

    A. $2{,}241 \div 83 = 27$

    B. $27 \div 2{,}241 = 83$

    C. $83 \div 2{,}241 = 27$

    D. $2{,}241 \div 27 = 83$

    E. $27 \times 83 = 2{,}241$

3. Choose the number that is closest to the value of the expression $8{,}745 \div 3$.

    A.   30

    B.   300

    C.   3,000

    D.   30,000

4. Find the value of $1{,}530 \div 34$. Explain or show your reasoning.

5. The area of a rectangular yard is 5,063 square feet and its length is 61 feet. What is its width? Explain or show your reasoning.

6. The area of the base of a box is 825 square centimeters. It has a height of 26 centimeters.

    a. The box is 25 cm wide. How long is the box?

    b. Explain why the volume of the box is less than 30,000 cubic centimeters.

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    c. Find the volume of the box in cubic centimeters. Explain or show your reasoning.