

Multiplying and Dividing Multi-digit Numbers: End-of-Unit Assessment

1. Here is the beginning of a list of multiples of 3:

3, 6, 9, 12, 15, 18, . . .

Select **all** statements that are true about this list.

- A. The terms in the list switch between even and odd.
- B. The 10th term in the list is 30.
- C. There are no multiples of 7 in the list.
- D. The 100th term in the list is 300.
- E. The next multiple of 5 in the list is 60.

2. Which is the best estimate for the value of $7,395 \times 8$?

- A. 1,000
- B. 6,000
- C. 60,000
- D. 600,000

3. Which is the best estimate for the value of $9,995 \div 5$?

- A. 200
- B. 2,000
- C. 20,000
- D. 50,000

4. Find the value of each product. Show or explain your reasoning.

a. $8 \times 4,174$

b. 35×74

5. Find the value of each quotient. Explain or show your reasoning.

a. $714 \div 6$

b. $3,626 \div 7$

6. a. Lin's school bought 275 packages of pens. There are 6 pens in each package. How many pens did Lin's school buy? Show your reasoning.
- b. Another school bought a total of 1,734 pens. There are 6 pens in each package. How many packages of pens did this school buy? Show your reasoning.
7. Jada's family is getting soil for a garden. The garden will be 160 square feet. Each bag of soil covers 6 square feet. How many bags of soil does Jada's family need? Explain or show your reasoning.

8. Clare is using square tiles to tile a bathroom. The bathroom is a rectangle that measures 8 feet by 5 feet. The tiles come in three sizes: 3 inches by 3 inches, 4 inches by 4 inches, and 8 inches by 8 inches.

a. How many tiles will Clare need if she uses only 3-inch tiles? Show your reasoning. Draw a diagram if it is helpful.

b. How many tiles will she need if she uses only 4-inch tiles? Show your reasoning. Draw a diagram if it is helpful.

c. Can Clare cover the space using only 8 inch by 8 inch tiles? Explain or show your reasoning.