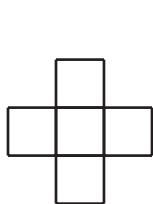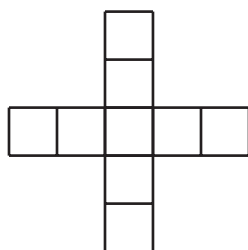# Multiplying and Dividing Multi-digit Numbers: Section A Checkpoint

1. Here are the first two steps of a pattern of squares that look like + symbols. At each step, 4 squares are added.

step 1   step 2   step 3

a. Draw the next figure in the pattern.

b. How many squares will be needed in step 7? Explain or show your reasoning.

c. Will there be a figure that uses exactly 40 squares? Explain or show your reasoning.

2. Here are the first three multiples of 8:

$$8, 16, 24, \ldots$$

Here are the first three multiples of 12:

$$12, 24, 36, \ldots$$

What are the next three numbers that are on both lists? Explain or show your reasoning.