## Unit Pre-Assessment

Grade 5, Unit 2: Developing multiplication and division strategies

1. Green's Cow Farm currently has 280 cows. Each cow produces at least 15 quarts of milk a day. What is the least amount of milk the farm can produce in a day?

\_\_\_\_ quarts of milk

2. Jeremiah is bundling letters together so his office can mail them out. He will put 18 letters in each bundle. If he has 324 letters, how many bundles can he make? Circle ALL of the equations that could be used to solve the problem.

$$324 \div 18 = ?$$

$$324 \div 18 = ?$$
 ? x  $18 = 324$   $18 \times ? = 324$ 

3. Mary sold 117 boxes of cookies. Her cousin, Claire, sold 4 times as many boxes as Mary. How many boxes of cookies did Claire sell?

4. Solve for *n* using a strategy of your choice. Select the correct answer.

$$264 \div 12 = n$$

A. 
$$n = 24$$

B. 
$$n = 22$$

D. 
$$n = 220$$

5. Jerome used the area model to solve  $1,260 \div 20$ . Fill in the four missing blanks to help finish this problem.

20 1000 200 60

6. Look at Richard and Cory's strategies. List <u>two ways they are the same</u> AND <u>two ways they are different</u>.

Richard:	Cory:
34 <u>x 27</u> 238 <u>680</u> 918	34 (30 + 4) x 27 (20 + 7) 28 (7 x 4) 201 (7 x 30) 80 (20 x 4) + 600 (20 x 30) 918

7. Julie solved a multiplication problem correctly using the standard algorithm. Which of the following could be used to find the same solution as Julie? Circle the correct answers.

	5 -	+ 3	
3	15	9	(2x53)+(3x53)
2	10	6	
	50x30=1,500 3x2=6		$3 \times 2 = 6$ $2 \times 50 = 100$ $30 \times 3 = 90$ $30 \times 50 = 1,500$