Section B: Practice Problems

1. a. 480 dancers make groups of 15. How many groups are there? Explain or show your reasoning.

    b. 480 dancers make groups of 30. How many groups are there? Explain or show your reasoning.

    (From Unit 4, Lesson 10.)

2.   a. Explain why $256 \div 4$ is equivalent to $(200 \div 4) + (40 \div 4) + (16 \div 4)$.

b. What is the value of $256 \div 4$? Explain your reasoning.

(From Unit 4, Lesson 11.)

3. Use partial quotients to find the value of $243 \div 9$

$$9\overline{)243}$$

(From Unit 4, Lesson 12.)

4.   a. Use partial quotients to find the quotient $636 \div 12$.

$$12\overline{)636}$$

b. Can you use partial quotients to find $636 \div 12$ in a different way?

(From Unit 4, Lesson 13.)

5. Find $4{,}250 \div 34$ using partial quotients. Explain your calculations.

(From Unit 4, Lesson 14.)

6. The area of a rectangular field is 8,320 square yards. The width is 65 yards. How long is the field? Explain your reasoning.

(From Unit 4, Lesson 15.)

7. **Exploration**

   a. Andre made a noodle that was 102 feet long. The noodle broke into two pieces. One piece was 2 times as long as the other. How long were the two noodles? Explain your reasoning.

   b. Priya made a noodle that was 456 feet long. The noodle broke into two pieces. One piece was 5 times as long as the other. How long were the two noodles? Explain your reasoning.

8. **Exploration**

Lin is calculating $6{,}596 \div 68$. She calculates $6{,}800 - 6{,}596$ and notices that it is 3×68. Lin concludes that $6{,}596 \div 68 = 97$.

a. Explain Lin's reasoning.

b. Use Lin's method to calculate $7{,}448 \div 76$.