Lesson 10: Concepts of Division

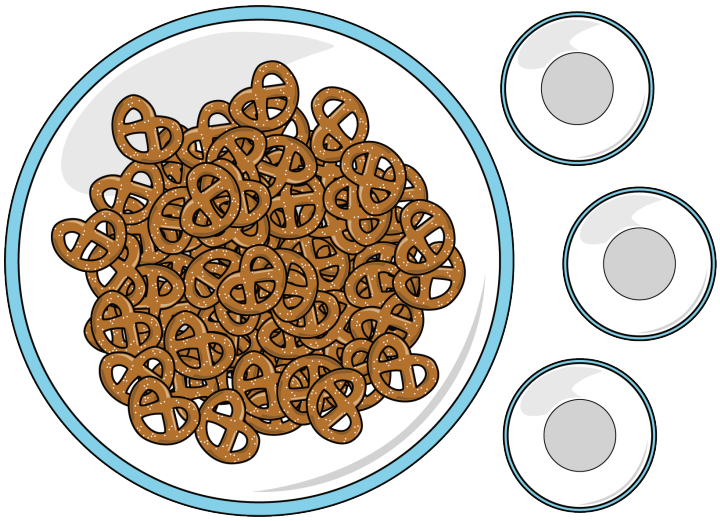
- Let's think about the size of quotients.

Warm-up: Number Talk: Same Dividend, Different Divisor

Find the value of each expression mentally.

- $120 \div 12$
- $120 \div 6$
- $120 \div 3$
- $120 \div 2$

10.1: Share Pretzels



Order the situations from greatest to least based on the number of pretzels each student will get. Be prepared to explain your reasoning.

3 students equally share 42 pretzels.
14 students equally share 42 pretzels.
3 students equally share 24 pretzels.
3 students equally share 45 pretzels.
7 students equally share 42 pretzels.
3 students equally share 6 pretzels.
6 students equally share 42 pretzels.

10.2: Division Patterns

1. Find the value of each expression.

   a. $36 \div 3$

   b. $12 \div 3$

   c. $9 \div 3$

   d. $6 \div 3$

   e. $3 \div 3$

   f. $1 \div 3$

2. What patterns do you notice?

3. Why is the quotient getting smaller?

4. What do you know about this expression: $\frac{1}{3} \div 3$?

5. Draw a diagram to represent $\frac{1}{3} \div 3$.