



# 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.

- $120 \div 12$

- $120 \div 6$

- $120 \div 3$

- $120 \div 2$



## Activity 1

### Share Beads

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

3 students equally share 42 beads.

14 students equally share 42 beads.

3 students equally share 24 beads.

3 students equally share 45 beads.

7 students equally share 42 beads.

3 students equally share 6 beads.

6 students equally share 42 beads.



## Activity 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?

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3. Why is the quotient getting smaller?

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

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

