Strategies for Dividing

Let's use different strategies to divide.

Warm-up

Number Talk: Multiplication and Division

Find the value of each expression mentally.

- 3×5
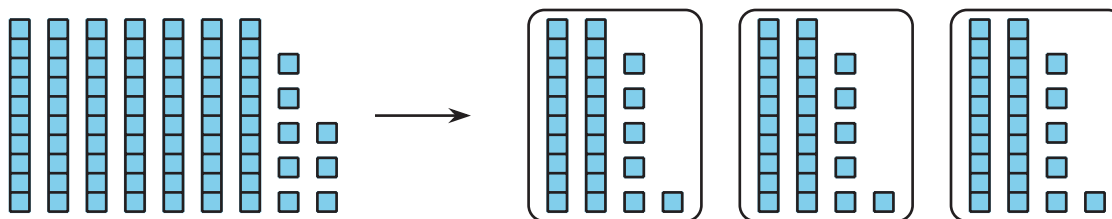
- 6×5

- 10×5

- $65 \div 5$

Ways to Divide

1. Lin, Priya, and Tyler used different strategies to find the value of $78 \div 3$. Their work is shown.

   Lin

   Priya

   $$3 \times 10 = 30$$
   $$3 \times 10 = 30$$
   $$3 \times 6 = 18$$
   _____
   $$3 \times 26 = 78$$

   Tyler

   $$3 \times 20 = 60$$
   $$3 \times 6 = 18$$

   $$20 + 6 = 26$$

   Make sense of each student's work.

2. How are they alike?

3. How are they different?

How Would You Divide?

Find the value of each quotient. Explain or show your reasoning. Organize your work so it can be followed by others.

1. $80 \div 5$

2. $68 \div 4$

3. $91 \div 7$

If you have time: The 84 students on a field trip are put into groups. Each group has 14 students. How many groups are there?

Introduce Compare—Divide within 100 with One-Digit Divisors

Play *Compare* with 2 players.

1. Shuffle the cards and split the deck between the players.

2. Each player turns over a card.

3. Compare the values. The player with the greater value keeps both cards.

4. If the values are the same, each player turns over 1 more card. The player with the greater value keeps all 4 cards.

5. Play until you run out of cards. The player with the most cards at the end of the game wins.