Strategies for Dividing

Let's use different strategies to divide.

Warm-up

Number Talk: Multiplication and Division

Find the value of each expression mentally.

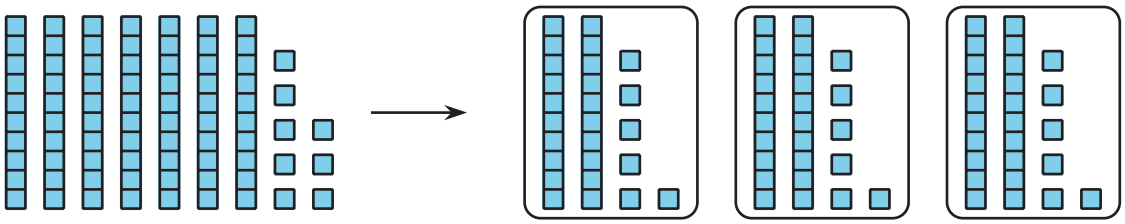
- 3×5
- 6×5
- 10×5
- $65 \div 5$

Activity 1

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

   $$\begin{aligned} 3 \times 10 &= 30 \\ 3 \times 10 &= 30 \\ 3 \times \ \ 6 &= 18 \\ \hline 3 \times 26 &= 78 \end{aligned}$$

   Tyler

   $$\begin{aligned} 3 \times 20 &= 60 \\ 3 \times \ \ 6 &= 18 \\ \\ 20 + 6 &= 26 \end{aligned}$$

   Make sense of each student's work.

2. How are they alike?

3. How are they different?

Activity 2

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?

Activity 3

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.