Illustrative Mathematics

Grade 5 Unit 2 Lesson 15 CC BY 2021 Illustrative Mathematics®

Unit 2 Lesson 15: Multiply More Fractions

WU Number Talk: Multiply Mixed Numbers (Warm up)

Student Task Statement

Find the value of each expression mentally.

- $6 \times \frac{3}{8}$
- $6 \times 2\frac{3}{8}$
- $7 \times \frac{9}{10}$
- $7 \times 3\frac{9}{10}$

1 Multiply Your Way

Student Task Statement

Write numbers from the list in the blank spaces so the situations make sense. Each number will be used only one time. Be prepared to explain your thinking.

4 5 $5\frac{1}{2}$ 3 $5\frac{3}{4}$ 2

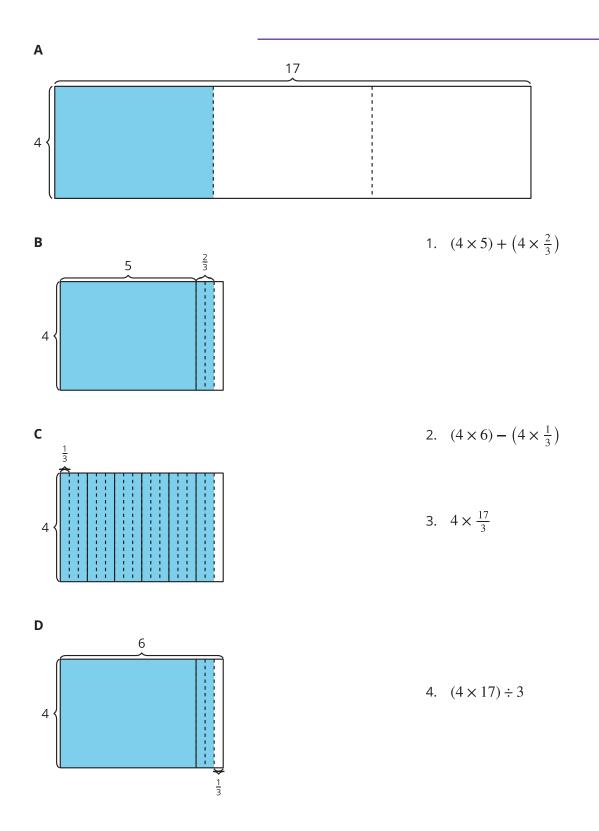
- 1. The area of the rug is $16\frac{1}{2}$ square feet. The length of the rug is ______ feet. The width of the rug is ______ feet.
- 2. The puzzle is $2\frac{1}{2}$ feet wide. It is ______ feet long. It has an area of ______ square feet.
- 3. The area of the whiteboard is 23 square feet. The length of the whiteboard is ______ feet. The width of the whiteboard is ______ feet.

Share your solutions with your partner. Explain what choices you made and why.

2 Equivalent Expressions

Student Task Statement

Each diagram represents a way to calculate $4 \times 5\frac{2}{3}$. Each expression is equivalent to $4 \times 5\frac{2}{3}$. Match the diagrams and expressions. Show or explain your reasoning.



Choose your favorite diagram and expression to find the value of $4 \times 5\frac{2}{3}$. Explain why it is your favorite.