

Activity 28 Assessment

Multiplying and Dividing Whole Numbers by Proper Fractions

Multiplication and Division with Proper Fractions

Models multiplication and division situations concretely and pictorially.

$$4 \times \frac{3}{5} = ?$$

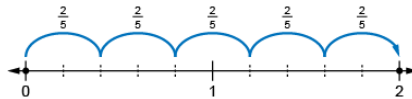


"I modelled the multiplication with fraction strips, then counted fifths:

$$4 \times \frac{3}{5} = \frac{12}{5}, \text{ or } 2\frac{2}{5}$$

Uses models and think-addition strategies, to solve multiplication problems.

$$5 \times \frac{2}{5} = ?$$

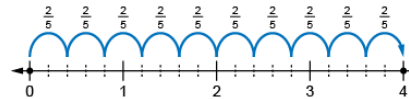


"I know that multiplication is like repeated addition, so I used a number with each whole partitioned into fifths, then took

$$5 \text{ jumps of two-fifths: } 5 \times \frac{2}{5} = 2"$$

Uses models and think-addition strategies without leftovers, to solve division problems.

$$4 \div \frac{2}{5} = ?$$

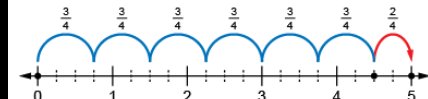


"I used a number line from 0 to 4 and partitioned each whole into fifths. I took jumps of two-fifths until I reached 4. I took 10 jumps.

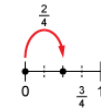
$$\text{So, } 4 \frac{2}{5} = 10."$$

Flexibly solves multiplication and division problems (with and without leftovers).

$$5 \div \frac{3}{4} = ?$$



There are 6 groups of $\frac{3}{4}$, with $\frac{2}{4}$ left over.



$$\frac{2}{4} \text{ is } \frac{2}{3} \text{ of } \frac{3}{4}$$

So, the remainder is $\frac{2}{3}$.

$$5 \div \frac{3}{4} = 6\frac{2}{3}$$

Observations/Documentation