

Activity 24 Assessment

Equivalent Ratios and Rates

Representing Equivalent Ratios and Rates

Uses multiplicative relationships to represent and create ratios and rates (ratio table).

It takes 6 cups of blueberries to make a pie.
How many cups of blueberries will I need to make 5 pies?

Number of cups	6	12	18	24	30
Number of pies	1	2	3	4	5

x5

"I use a ratio table to see patterns to help me solve problems."

Represents and records ratios and rates symbolically.

Number of cups	6	12	18	24	30
Number of pies	1	2	3	4	5

x5

6:1, 12:2, 18:3, 24:4, 30:5

Represents and creates equivalent ratios and rates.

The ratio of cups of blueberries to pies is 30:5.
Identify equivalent ratios.

"I multiply or divide each term by the same number. Equivalent ratios:

$$\begin{array}{c}
 30:5 \\
 \div 5 \swarrow \searrow \div 5 \\
 6:1 \\
 \times 9 \swarrow \searrow \times 9 \\
 54:9 \\
 \times 2 \swarrow \searrow \times 2 \\
 108:18
 \end{array}$$

Flexibly represents and creates equivalent ratios and rates.

A baker sells 2 pies for \$15. How much did the baker make if 7 pies were sold?

Number sold	2	4	6	8
Earnings (\$)	15	30	45	60

7
\$52.50

"7 is halfway between 6 and 8, so I find the number halfway between 45 and 60, which is \$52.50."

Observations/Documentation