

Name _____ Date _____

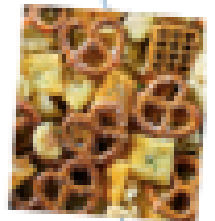
Introduction to Ratios

Vocabulary

Ratio: A comparison of two quantities by division.

Ratios can be Represented in Several Ways:

6 cups party mix to 2 cups pretzels



In Words:

6 to 2

party mix : pretzels

For every 6 cups of party mix there are 2 cups of pretzels.

With a Symbol:

6:2

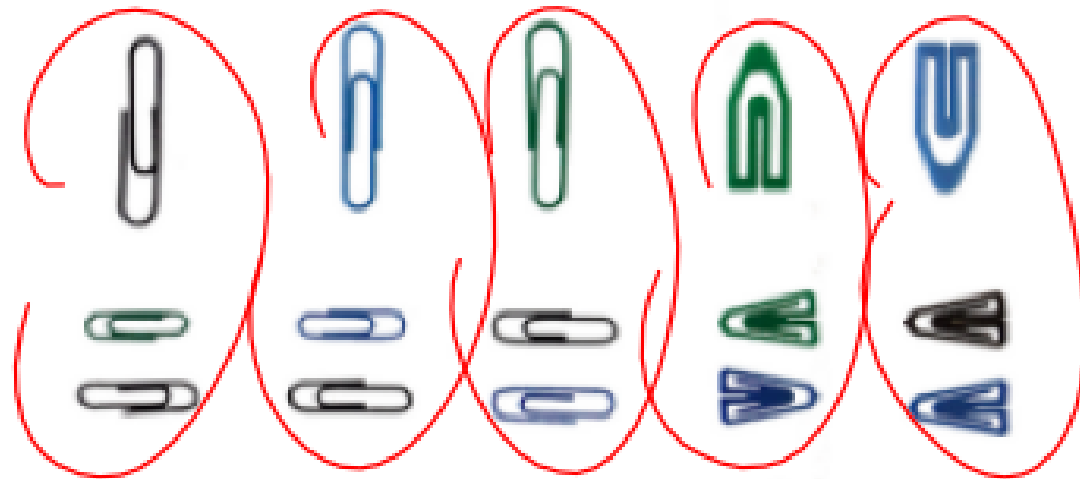
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colon

As a Fraction:

$$\frac{6}{2} = \frac{3}{1}$$

For every...

For every 1 large there are
2 small.

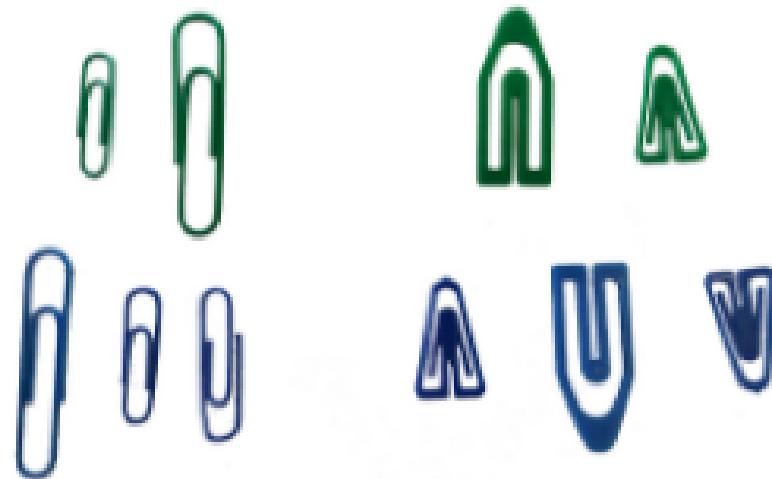


$$\frac{5 \div 5}{10 \div 5} = \frac{1}{2}$$

$$\frac{1}{2} = \frac{5}{10}$$

$$\begin{array}{l} 1 : 2 \\ 5 : 10 \end{array}$$

For every...



WHEN ARE WE GOING TO USE THIS?

A basketball team has 20 wins and 10 losses.
Write each ratio.



1. The ratio of the number of wins to the number of losses is 20 : 10.

total games = wins + losses

2. The ratio of number of losses to the number of games is 10 to 30
1 to 3

3. For every $\frac{20}{10}$ wins, there are $\frac{10}{5}$ losses.
2 : 1 loss

$$\frac{20 \div 2}{10 \div 2} = \frac{10}{5}$$

4. For every 2 wins there is one loss.

5. For every $\frac{3}{30}$ games, there are $\frac{1}{10}$ losses.