

Assignment

Write - Sample:

Describe two ratios in the real world. Write about at least one part-to-whole ratio and one part-to-part ratio.

P:W There are 4 red skittles to every 40 total skittles!
 P:P There are 4 red skittles to every 8 green skittles.

Remember

A ratio is a comparison of two quantities using division.

A part-to-whole ratio compares a part of a whole to the total number of parts.

A part-to-part ratio compares parts.

A part-to-whole ratio is a fraction.

A percent is a fraction in which the denominator is 100.

Practice

The Lewis brothers just joined MovieQ, a club that provides them with free movies based on a list that they pre-select. The boys work together to pick the first 10 movies for their list, each brother adding to the list based on their favorite type of movie. John David puts 5 sports movies on the list; Parker chooses 3 war movies; and Stephen adds 2 comedies.

Write the ratio in colon and in fractional form to express each relationship.

- sports movies to war movies $5 \text{ Sports} : 3 \text{ war}$ $\frac{5 \text{ Sports}}{3 \text{ war}}$
- comedies to total movies $2 \text{ comedies} : 10 \text{ total}$ $\frac{2 \text{ Comedies}}{10 \text{ total}}$
- war movies to comedies $3 \text{ war} : 2 \text{ comedies}$ $\frac{3 \text{ war}}{2 \text{ comedies}}$
- sports movies to total movies $5 \text{ Sports} : 10 \text{ total}$ $\frac{5 \text{ Sports}}{10 \text{ total}}$
- comedies to sports movies $2 \text{ comedies} : 5 \text{ Sports}$ $\frac{2 \text{ comedies}}{5 \text{ Sports}}$
- war movies to total movies $3 \text{ war} : 10 \text{ total}$ $\frac{3 \text{ war}}{10 \text{ total}}$

Stretch

During the 2015 regular season, the Pittsburgh Pirates won 98 baseball games, 53 of which were won in their home stadium. The regular season includes 162 games.

$$\begin{array}{r} 162 \\ - 98 \\ \hline 64 \end{array}$$

Write a ratio for each and identify it as part-to-whole or part-to-part.

- number of games won to number of games lost $98 \text{ games won} : 64 \text{ games lost}$ / part to part
- number of games won to number of games played $98 \text{ games won} : 162 \text{ games played}$ / part to whole
- number of games lost to number of games played $64 \text{ games lost} : 162 \text{ games played}$ / part to whole
- number of games won at home to number of games won away $53 \text{ won home} : 45 \text{ won away}$ / part to part
- number of games won at home to number of games won $53 \text{ won home} : 98 \text{ won total}$ / part to whole