

Grade 6

Ratios

Word Problems

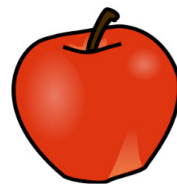
Name: _____ Class: _____

1. John, Peter and Erik played a football tournament. They scored many goals in the ratio 1 : 2 : 3.



- (a) Express Peter's number of goals as a fraction of Erik's.
- (b) What fraction of the total goals did Erik score?
- (c) What fraction of the total goals did John and Peter score altogether?
- (d) Erik scored 12 goals. How many goals did John and Peter score?

2. Trixie, Dixie and Pixie plucked apples in the ration 2 : 3 : 5



- (a) Express Trixie's apples as a fraction of the total apples plucked?
- (b) Express Pixie's apples as a fraction of Dixie's.
- (c) Trixie plucked 6 apples. How many apples were plucked altogether?.

3. To make a chocolate cake you need sugar, salt and cocoa powder in the ratio 10 : 1 : 2.



- (a) Express the needed cocoa powder as a fraction of the needed sugar.
- (b) Express the needed salt as a fraction of the total of the 3 ingredients.
- (c) For a cake you use 400 grams of sugar. How much cocoa powder do you need?
- (d) If you want to make a cake of 2.6 kg, how much salt do you need?

4. Jim and Maria saved money in the ratio 8:12



- (b) Express the ratio in its simplest form.
- (b) Express Maria's saving as a fraction of Jim's saving.
- (c) If Maria saved 150 dollars, how much did Jim save?
- (d) If they saved 400 dollars altogether, how much did Maria save?

Answers

Q1 (a) $\frac{2}{3}$ (b) $\frac{1}{2}$ (c) $\frac{1}{2}$ (d) 4 and 8 goals/ 12 altogether

Q2 (a) $\frac{1}{5}$ (b) $1\frac{1}{3}$ (c) 30 apples

Q3 (a) $\frac{1}{5}$ (b) $\frac{1}{13}$ (c) 80 grams (d) 200 grams

Q4 (a) 2 : 3 (b) $1\frac{1}{2}$ (c) 100 dollars (d) 240 dollars