ADDITION AND SUBTRACTION (SAME DENOMINATOR)

Fractions can be used to solve problems. Let's look at some examples before you start.
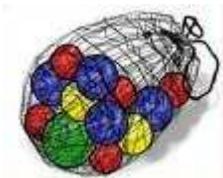
EXAMPLE 1:

Chung had a chocolate bar with 12 blocks. He ate two blocks of the chocolate and gave his sister three blocks of it. What fraction of the chocolate was eaten?

Answer: Amount of chocolate bars eaten were 2 + 3 = 5; Fraction of chocolate eaten = $\frac{5}{12}$.
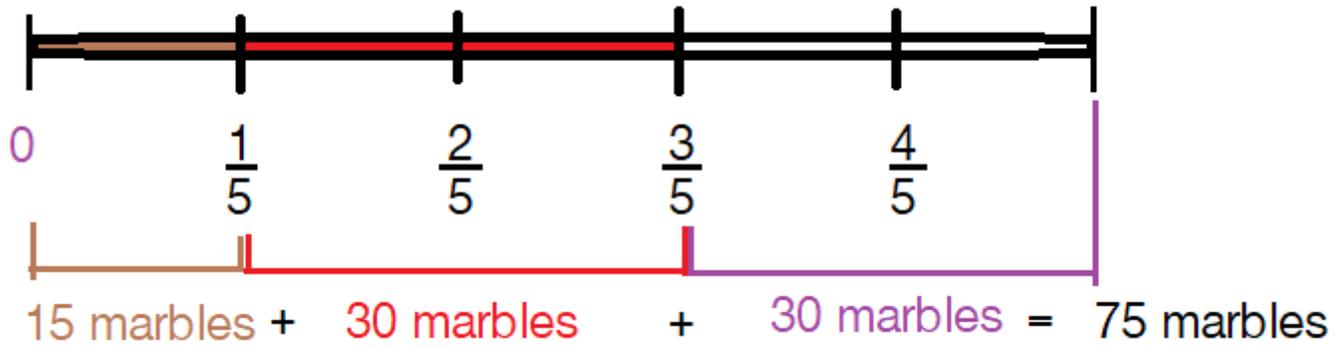

EXAMPLE 2:

Andre has many marbles. He gave his best friend Fred $\frac{2}{5}$ of his marbles and $\frac{1}{5}$ to his brother. He remained with 30 marbles. How many marbles did he have before he shared the marbles?

Answer: First, find the total amount of marbles he gave away = $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$;
Andre remained with $\frac{5}{5} - \frac{3}{5} = \frac{2}{5}$; that is $\frac{2}{5}$ = 30 marbles.
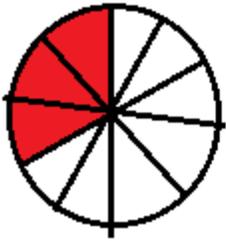Observe the number line below.

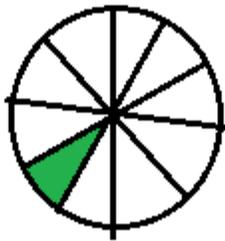Andre had 75 marbles before he shared them.

EXAMPLE 3:

Three-tenths of fruits in a basket are red apples and $\frac{1}{10}$ are green apples. What fraction of fruits are either red or green apples. Give your answer in the lowest terms.
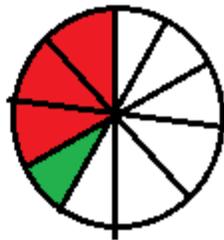
Answer:

red apples

green apples

either red or green apples

$\frac{3}{10} + \frac{1}{10} = \frac{4}{10}$

lowest term = $\frac{2}{5}$

1. QUESTION

Simon drank ⅔ litre of water during the day and ⅓ during the night. How much water did he drink altogether? Type your answer in the space below.

Answer = _____

2. QUESTION

Mark walked ⅘ of a kilometre and then ⅖ of a kilometre to a church. How far did he walk altogether? Select the answer below.

Answer = _____

3. QUESTION

Betty's Bakery makes muffins. At the end of one day it had 10 muffins left. ¼ of the muffins made to sell was sold in the morning and 20 was sold in the evening. How many muffins was made that day?

Answer = _____

4. QUESTION

Soraya had **5¾** cups of cereals. She had cereal with milk and after breakfast she had 3¼ cups of cereals. How much cereal did she have with her milk?

Answer= _____

5. QUESTION

Keisha has 5 pounds of flour. She used **2½** pounds to make biscuits and 1 pound to make cookies. How much flour is unused?

Answer= _____

6. QUESTION

Raymond took **2¼** hours to complete his mathematics homework and **1¾** hours to do his English homework. How long did he take to complete homework for both subjects?

Answer = _____