

Maths

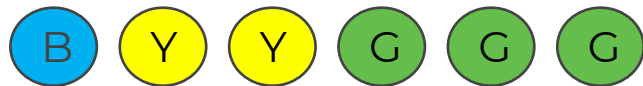
# Ratio and fractions

Mr Clasper



# Ratio and fractions

1. Here are 6 counters.



- a) What fraction are blue?
- b) What fraction are yellow?
- c) What fraction are green?
- d) What is the ratio of blue to yellow?
- e) What is the ratio of blue to green?
- f) What is the ratio of yellow to green?

2. Use the bar model to complete the statements.



- a) The ratio of orange to blue is \_\_\_\_\_.
- b) The ratio of blue to orange is \_\_\_\_\_.
- c) The fraction of orange parts is \_\_\_\_\_.
- d) Orange is  $\frac{\square}{\square}$  of the blue.
- e) Blue is  $\frac{\square}{\square}$  of the orange



## Ratio and fractions

3. The ratio of red counters to purple counters in a box is  $3 : 2$

a) What fraction are red counters?

b) What fraction are purple counters?

c) Write red counters as a fraction of purple counters.

d) Write purple counters as a fraction of red counters.

4.  $x : y = 2 : 5$

a) What fraction is  $x$  of  $y$ ?

b) What fraction is  $y$  of  $x$ ?

5.  $a = \frac{4}{7}$  of  $b$

a) What is the ratio of  $a : b$ ?

b) What is fraction of  $a$  is  $b$ ?

6.  $c = \frac{5}{9}$  of  $d$

a) What is the ratio of  $c : d$ ?

b) What is fraction of  $c$  is  $d$ ?

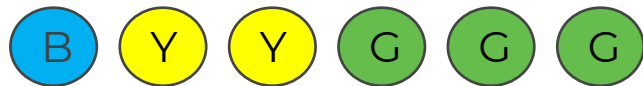


# Answers



# Ratio and fractions

1. Here are 6 counters.



- a) What fraction are blue?  $\frac{1}{6}$
- b) What fraction are yellow?  $\frac{2}{6} = \frac{1}{3}$
- c) What fraction are green?  $\frac{3}{6} = \frac{1}{2}$
- d) What is the ratio of blue to yellow?  
 $1:2$
- e) What is the ratio of blue to green?  
 $1:3$
- f) What is the ratio of yellow to green?  
 $2:3$

2. Use the bar model to complete the statements.



- a) The ratio of orange to blue is  $\frac{3}{4}$ .
- b) The ratio of blue to orange is  $\frac{4}{3}$ .
- c) The fraction of orange parts is  $\frac{3}{7}$ .
- d) Orange is  $\frac{3}{4}$  of the blue.
- e) Blue is  $\frac{4}{3}$  of the orange.



## Ratio and fractions

3. The ratio of red counters to purple counters in a box is  $3 : 2$

a) What fraction are red counters?  $\frac{3}{5}$

b) What fraction are purple counters?  $\frac{2}{5}$

c) Write red counters as a fraction of purple counters.  $\frac{3}{2}$

d) Write purple counters as a fraction of red counters.  $\frac{2}{3}$

4.  $x : y = 2 : 5$

a) What fraction is  $x$  of  $y$ ?  $\frac{2}{5}$

b) What fraction is  $y$  of  $x$ ?  $\frac{5}{2}$

5.  $a = \frac{4}{7}$  of  $b$

a) What is the ratio of  $a : b$ ?  $4 : 7$

b) What is fraction of  $a$  is  $b$ ?  $\frac{7}{4}$

6.  $c = \frac{5}{9}$  of  $d$

a) What is the ratio of  $c : d$ ?  $5 : 9$

b) What is fraction of  $c$  is  $d$ ?  $\frac{9}{5}$

