

1. Write, in the simplest form, the ratio  $p : q : r$

a.  $p : q = 3 : 2$  and  $q : r = 2 : 5$

b.  $p : q = 1 : 4$  and  $q : r = 4 : 7$

c.  $p : r = 2 : 5$  and  $q : r = 3 : 5$

2. Write, in the simplest form, the ratio  $f : g : h$

a.  $f : g = 1 : 3$  and  $g : h = 6 : 5$

b.  $f : g = 2 : 5$  and  $g : h = 10 : 7$

c.  $f : h = 3 : 4$  and  $g : h = 1 : 2$

3. Write, in the simplest form, the ratio  $w : x : y$

a.  $w : x = 2 : 3$  and  $x : y = 4 : 1$

b.  $w : x = 3 : 5$  and  $x : y = 2 : 4$

c.  $x : w = 3 : 1$  and  $x : y = 4 : 6$

d.  $w : y = 3 : 8$  and  $y : x = 3 : 5$

e.  $w : x = 10 : 5$  and  $w : y = 3 : 4$

f.  $x : y = 4 : 2$  and  $w : y = 3 : 7$

4.

a. The counters in a bag are either blue, red or yellow.  
The ratio of blue counters to red counters is  $5 : 3$   
The ratio of red counters to yellow counters is  $2 : 4$   
Show that more than half of the counters are yellow.

b. On a farm, the number of cows to sheep is in the ratio  $6 : 5$   
The number of sheep to pigs is in the ratio  $2 : 3$   
Show that less than a third of the animals are sheep.

c. The ratio of red pens to black pens is  $2 : 9$   
The ratio of black pens to green pens is  $5 : 4$   
Show that less than 50% of the pens are black.

d. The ratio of men to women at a café is  $4 : 3$   
The ratio of women to children at the café is  $8 : 5$   
Show that less than half of the people are men.

5. Given the ratios, find the values of  $x$ ,  $y$  and  $z$

a.  $p : q = x : 7$ ,  $q : r = y : z$  and  $p : q : r = 12 : 21 : 14$

b.  $p : q = 3 : 8$ ,  $q : r = x : y$  and  $p : q : r = 15 : z : 72$

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