

1. 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  $w : y = 3 : 7$

2.

a. 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.

b. 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.

c. The ratio of the ages of Cecily, Elodie and Juno is  $10 : 6 : 7$   
The ratio of Lenny's age to Juno's age is  $3 : 4$   
Show that Lenny is more than half of Cecily's age.

d. Yellow counters to red counters are in the ratio  $4 : 3$   
Blue counters to green counters are in the ratio  $8 : 11$   
Yellow counters to blue counters are in the ratio  $2 : 3$   
Show that no colour accounts for more than 40% of the counters

3.

M divides the line XY in the ratio  $1 : 6$   
N divides the line XY in the ratio  $8 : 13$



Work out the ratio  $XM : MN : NY$

4.

a. The points T, U, V and W lie, in order, on a straight line  
 $TU : UW = 3 : 2$   
 $TV : VW = 9 : 1$   
Work out  $TU : UV : VW$

b. The points E, F, G and H lie, in order, on a straight line  
 $EF : FH = 8 : 2$   
 $EG : GH = 49 : 1$   
Work out  $EF : FG : GH$

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a. A, B and C are such that  
 $A : B = 1 : 5$   
B is 75% of C  
Work out the ratio  $A : C$

b. P, Q and R are such that  
 $P : Q = 2 : 3$   
P is 0.7 of R  
Work out the ratio  $Q : R$

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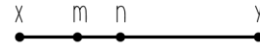
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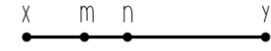
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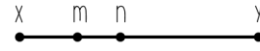
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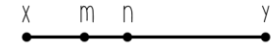
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