

**RATIOS Sharing in proportion**

1. A short necklace has 32 gold beads and 8 black beads.  
A long necklace has a total of 60 beads.  
Both necklaces have the same ratio of gold beads to black beads.

How many black beads are on the long necklace?

.....  
.....  
.....

Answer.....

2. A fruit drink is made using water and cordial.  
A bottle contains 560 ml of fruit drink.  
The ratio of water to cordial is 7 : 1

How much water is in the fruit drink?

.....  
.....  
.....  
.....

Answer .....ml

3. Alex and Ben share £520 in the ratio 1: 3

(a) How much does Ben receive?

.....  
.....  
.....

Answer £ .....

(b) Express  $4 : 5$  in the form  $1 : n$

.....  
.....  
.....

4. A map has a scale of 1:5000  
On the map, the length of a sports field is 3 cm.

What is the actual length of the sports field?  
Give your answer in metres.

.....  
.....  
.....  
.....

Answer ..... m

5. In 2002 the town of Axon had 35 600 houses.  
The ratio of detached houses to other types of houses was 1 : 4  
How many detached houses were there?

.....  
.....  
.....  
.....  
.....

Answer .....