

# More on Fractions

- 1 Bottle A contains some blue and red marbles.  
 Bottle B contains 32 blue and red marbles.  
 After 4 blue marbles are transferred to Bottle A from Bottle B, the number of blue marbles in Bottle B is  $\frac{4}{9}$  the total number of marbles in Bottle B.  
 How many blue marbles are there in Bottle B at first?

Ans: \_\_\_\_\_ blue marbles

- 2 Bottle A contains 30 blue and red marbles.  
 Bottle B contains some blue and red marbles.  
 How many red marbles must be transferred from Bottle B to Bottle A so that the number of red marbles in Bottle A is  $\frac{3}{5}$  the number of marbles in Bottle A?

Ans: \_\_\_\_\_ red marbles

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After,  $\frac{5}{3} = \frac{10}{6} = \frac{15}{9} = \frac{35}{21}$   
 Before,  $\frac{21-5}{35-5} = \frac{16}{30}$   
 Ans: 5 red marbles

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After, Bottle B  $\rightarrow \frac{9}{4} = \frac{18}{8} = \frac{27}{12} = \frac{36}{16}$   
 Before,  $\frac{16-4}{36-4} = \frac{12}{32}$   
 Ans: 12 blue marbles

Solution:

