

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

1

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:

