Examples

A tank is 3/5 full with water. If 30 liters more water are needed to fill the tank completely, find the capacity of the tank.

30% of the beads in a jar are red. The rest are blue. If there are 500 more blue beads than red, how many beads are there altogether?

The ratio of Zoe’s money to Yolanda’s is 3:7. Yolanda has $64 more than Zoe. If Yolanda gives 1/4 of her money to Zoe, what will be the new ratio of Zoe’s money to Yolanda’s

Cathy spent 4/5 of her money while Josie spent 1/2 of her money. Both of them had the same amount of money left. If Josie had $35 left, how much did Cathy have at first?

Abe, Barry, and Carlos have 256 marbles altogether. The ratio of Abe’s marbles to Barry’s marbles is 4:3. Barry has 14 more marbles than Carlos. How many marbles does Abe have?