

**5.** To a certain number  $\frac{2}{3}$  of itself is added : what part must be subtracted from the sum to get the number ?

**6.** How does the numerator of the part subtracted, compare with the numerator of what is added ?

**7.** How does the denominator of what is taken off compare with the numerator and the denominator of what is added ?

**8.** What per cent. taken from a number is equal to 40 per cent. of the remainder ?

*Sol.*—Rem. + 40 per cent. of rem. = 140 per cent. of rem. =  $\frac{7}{5}$  of rem. = given number  
 $\therefore$  rem. =  $\frac{5}{7}$  of given number, and  $\frac{2}{7}$  or  $28\frac{1}{4}$  per cent. must have been taken off.

**9.** What per cent. subtracted from a number is equal to 25 per cent. of the remainder ?

**10.** 30 per cent. is added to a number : what per cent. must be taken from the sum to give the original number ?

**11.** When  $12\frac{1}{2}$  per cent. is added, what per cent. subtracted will give the number that was increased ?

**12.** 40 is 8 per cent. of what ?

*Sol.*—8 per cent. =  $\frac{8}{100}$  of it = 40  $\therefore \frac{100}{8} = 5$ ,  
 and number = 500.

**13.** If I take off  $\frac{1}{5}$  of my price when selling an article, what per cent. of my price is left ?

**14.** If I ask 96 cts. for a book and take off  $12\frac{1}{2}$  per cent., how much do I get for it ?

**15.** What per cent. must I add to the price of an article, so that when I take off 10 per cent. for a customer I may neither lose nor gain ?