

5. To a certain number $\frac{3}{8}$ 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 $\frac{1}{2}$ 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 $\frac{1}{100} = 5$, 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?