

EduSahara™ Learning Center Assignment**Grade : Class X, ICSE****Chapter : Ratio****Name : Ratio Types**

1. Find the duplicate of the given ratio $9 : 4 =$

(i) $82 : 16$ (ii) $81 : 16$ (iii) $81 : 18$ (iv) $80 : 16$ (v) $81 : 14$

2. Find the sub-duplicate of the given ratio $196 : 121 =$

(i) $14 : 9$ (ii) $14 : 11$ (iii) $14 : 14$ (iv) $15 : 11$ (v) $13 : 11$

3. Find the triplicate of the given ratio $14 : 8 =$

(i) $2744 : 515$ (ii) $2744 : 512$ (iii) $2743 : 512$

(iv) $2744 : 509$ (v) $2745 : 512$

4. Find the sub-triplicate of the given ratio $64 : 6859 =$

(i) $3 : 19$ (ii) $4 : 22$ (iii) $4 : 17$ (iv) $4 : 19$ (v) $5 : 19$

5. Find the compound ratio of $13 : 19$ and $3 : 1$

(i) $40 : 19$ (ii) $38 : 19$ (iii) $39 : 22$ (iv) $39 : 19$ (v) $39 : 16$

6. If $27 : (x + 56)$ is the duplicate ratio of $3 : 8$, find the value of x

(i) 134 (ii) 137 (iii) 136 (iv) 139 (v) 135

7. If $12 : (x + 7)$ is the sub-duplicate ratio of $9 : 36$, find the value of x

(i) 17 (ii) 14 (iii) 20 (iv) 18 (v) 16

8. If $(x + 2294) : 512$ is the triplicate ratio of $9 : 4$, find the value of x

(i) 3541 (ii) 3537 (iii) 3538 (iv) 3536 (v) 3539

9. If $(x + 20) : 24$ is the sub-triplicate ratio of $512 : 64$, find the value of x

(i) 28 (ii) 29 (iii) 30 (iv) 27 (v) 26

10. Find the compounded ratio of the duplicate ratio of $8 : 9$,
the reciprocal ratio of $14 : 3$ and the sub-duplicate ratio of $4 : 9$

(i) 65 : 567 (ii) 64 : 565 (iii) 64 : 567

(iv) 64 : 570 (v) 63 : 567

11. Find the duplicate ratio of $q : e$

(i) $q^2 : e^2$ (ii) $\sqrt{q} : \sqrt{e}$ (iii) $q^3 : e^3$ (iv) $\sqrt[3]{q} : \sqrt[3]{e}$

12. Find the triplicate ratio of $c : g$

(i) $\sqrt[3]{c} : \sqrt[3]{g}$ (ii) $\sqrt{c} : \sqrt{g}$ (iii) $c^3 : g^3$ (iv) $c^2 : g^2$

13. Find the sub-duplicate ratio of $n : k$

(i) $n^3 : k^3$ (ii) $\sqrt{n} : \sqrt{k}$ (iii) $\sqrt[3]{n} : \sqrt[3]{k}$ (iv) $n^2 : k^2$

14. Find the sub-triplicate ratio of $j : a$

(i) $j^2 : a^2$ (ii) $\sqrt{j} : \sqrt{a}$ (iii) $j^3 : a^3$ (iv) $\sqrt[3]{j} : \sqrt[3]{a}$

15. Find the compounded ratio of $x : y$ and $n : v$

(i) $n : xy$ (ii) $xy : nv$ (iii) $y : nv$ (iv) $vn : xy$ (v) $xn : yv$

Assignment Key

- 1) (ii)
- 2) (ii)
- 3) (ii)
- 4) (iv)
- 5) (iv)
- 6) (iii)
- 7) (i)
- 8) (iii)
- 9) (i)
- 10) (iii)
- 11) (i)
- 12) (iii)
- 13) (ii)
- 14) (iv)
- 15) (v)