



1. Find the duplicate of the given ratio 20:15 =

- (i) 401:225 (ii) 399:225 (iii) 400:228 (iv) 400:223 (v) 400:225

2. Find the sub-duplicate of the given ratio 36:49 =

- (i) 6:7 (ii) 6:10 (iii) 6:5 (iv) 5:7 (v) 7:7

3. Find the triplicate of the given ratio 5:16 =

- (i) 126:4096 (ii) 125:4094 (iii) 124:4096 (iv) 125:4096 (v) 125:4098

4. Find the sub-triplicate of the given ratio 6859:512 =

- (i) 19:6 (ii) 18:8 (iii) 19:8 (iv) 19:10 (v) 20:8

5. Find the compound ratio of 13:8 and 19:14

- (i) 247:115 (ii) 248:112 (iii) 247:112 (iv) 247:109 (v) 246:112

6. If $(x+21) : 48$ is the duplicate ratio of 5:4, find the value of x

- (i) 56 (ii) 55 (iii) 53 (iv) 51 (v) 54

7. If $(x+14) : 54$ is the sub-duplicate ratio of 64:36, find the value of x

- (i) 59 (ii) 57 (iii) 56 (iv) 61 (v) 58

8. If $250 : (3x+123)$ is the triplicate ratio of 5:9, find the value of x

- (i) 444 (ii) 443 (iii) 446 (iv) 445 (v) 448

9. If $(x+7) : 63$ is the sub-triplicate ratio of 729:343, find the value of x

- (i) 71 (ii) 77 (iii) 75 (iv) 74 (v) 73

10. Find the compounded ratio of the duplicate ratio of 18 : 8, the reciprocal ratio of 16 : 13 and the sub-duplicate ratio of 9 : 324

- (i) 351:510 (ii) 351:512 (iii) 350:512 (iv) 351:515 (v) 352:512

11. Find the duplicate ratio of v : w

- (i) $v^2 : w^2$ (ii) $\sqrt{v} : \sqrt{w}$ (iii) $\sqrt[3]{v} : \sqrt[3]{w}$ (iv) $v^3 : w^3$

12. Find the triplicate ratio of n : z

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

13. Find the sub-duplicate ratio of y : r

- (i) $\sqrt[3]{y} : \sqrt[3]{r}$ (ii) $\sqrt{y} : \sqrt{r}$ (iii) $y^3 : r^3$ (iv) $y^2 : r^2$

14. Find the sub-triplicate ratio of $x:n$

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

15. Find the compounded ratio of $r:b$ and $n:f$

(i) $rn:bf$ (ii) $b:nf$ (iii) $n:rb$ (iv) $rb:nf$ (v) $fn:rb$

Assignment Key

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