



1. Find the missing value in the equation ___ : 8 = 30 : 5

- (i) 45 (ii) 48 (iii) 51 (iv) 47 (v) 49

2. Find the missing value in the equation 40 : ___ = 36 : 9

- (i) 11 (ii) 12 (iii) 10 (iv) 8 (v) 9

3. Find the missing value in the equation 38 : 1 = ___ : 6

- (i) 225 (ii) 228 (iii) 227 (iv) 229 (v) 230

4. Find the missing value in the equation 26 : 1 = 182 : ___

- (i) 4 (ii) 6 (iii) 8 (iv) 7 (v) 9

5. Find the product of extremes of 17 : 19 and 15 : 11

- (i) 186 (ii) 285 (iii) 184 (iv) 189 (v) 187

6. Find the product of extremes of $\frac{2}{17} : \frac{16}{17}$ and $\frac{8}{3} : \frac{9}{13}$

- (i) $\frac{6}{73}$ (ii) $\frac{20}{221}$ (iii) $\frac{128}{51}$ (iv) $\frac{16}{221}$ (v) $\frac{18}{221}$

7. Find the product of means of 3 : 15 and 6 : 9

- (i) 89 (ii) 93 (iii) 90 (iv) 27 (v) 88

8. Find the product of means of $\frac{9}{5} : \frac{17}{14}$ and $\frac{2}{15} : \frac{9}{11}$

- (i) $\frac{17}{105}$ (ii) $\frac{81}{55}$ (iii) $\frac{1}{7}$ (iv) $\frac{17}{103}$ (v) $\frac{19}{105}$

9. Find the mean proportional of 8 and 2

- (i) 8 (ii) 1 (iii) 4 (iv) 2 (v) 16

10. Find the third proportional of 32 and 8

- (i) (-1) (ii) 64 (iii) 32 (iv) 8 (v) 2

11. Find the fourth proportional of 20, 5 and 36

- (i) 7 (ii) 9 (iii) 5 (iv) 36 (v) 11

12. Which of the ratios is proportional to 12 : 3?

- (i) 20 : 5 (ii) 20 : 7 (iii) 19 : 5 (iv) 21 : 5 (v) 20 : 3

13. Find the mean proportional of 98 and 2

- (i) 14 (ii) 11 (iii) 196 (iv) 2 (v) 98

14. Find the third proportional of 27 and 9

- (i) 3 (ii) 1 (iii) 81 (iv) 27 (v) 9

15. Find the fourth proportional of 24, 6 and 8

- (i) 6 (ii) (-1) (iii) 8 (iv) 4 (v) 2

16. Which of the ratios is proportional to 27 : 3?

- (i) 27:6 (ii) 28:3 (iii) 26:3 (iv) 27:3 (v) 27:1

17. If $a:b::c:d$, then

- (i) $ab = cd$ (ii) $ad = bc$ (iii) $abc = bcd$ (iv) $ac = bd$

18. The ratio 4 : 2 is proportional to which of the following ratios?

- (i) 16:12 (ii) 12:10 (iii) 20:6 (iv) 8:4 (v) 24:8

19. Which of the following represents a proportion ?

- (i) 50:34::150:68 (ii) 48:32::144:96 (iii) 46:30::184:90 (iv) 49:33::98:99 (v) 47:31::141:124

20. Which of the following does not represent a proportion ?

- (i) 15:9::60:36 (ii) 16:8::80:40 (iii) 14:10::42:30 (iv) 24:18::48:36 (v) 6:4::12:12

21. If $a:b::c:d$, then 'd' is called

- (i) third proportional (ii) second term (iii) mean proportional (iv) extreme (v) first term

22. If $a:b::b:c$, then 'b' is called

- (i) extreme (ii) fourth proportional (iii) first term (iv) third proportional (v) mean proportional

23. If $a:b::b:c$, then 'c' is called

- (i) third proportional (ii) mean proportional (iii) second term (iv) first term

24. If $a:b::b:c$, then the mean proportional is

- (i) a (ii) ac (iii) b (iv) bc (v) c

If

25. a, b, c, d, e, f are in continued proportion, then which of the following is true?

- (i) $\frac{a}{b} = \frac{c}{d} = \frac{e}{f}$ (ii) $ab = bc = cd = de$ (iii) $\frac{ab}{bc} = \frac{bc}{cd} = \frac{cd}{de}$ (iv) $\frac{a}{b} = \frac{b}{c} = \frac{c}{d}$

26. If $x:12::24:18$, find 'x'

- (i) 13 (ii) 17 (iii) 16 (iv) 18 (v) 15

27. Find the fourth proportional of 20, 25, 12

- (i) 17 (ii) 15 (iii) 16 (iv) 14 (v) 13

28. Find the third proportional of 9 and 15

- (i) 24 (ii) 25 (iii) 22 (iv) 26 (v) 28

29. Find the mean proportional of 7 and 175

- (i) 34 (ii) 37 (iii) 36 (iv) 35 (v) 33

30. If 10, x , 40 are in continued proportion, find x

- (i) 19 (ii) 18 (iii) 23 (iv) 21 (v) 20

31. Find the mean proportional between 4.2 and 151.2

- (i) 24.2 (ii) 27.2 (iii) 23.2 (iv) 26.2 (v) 25.2

32. Find the mean proportional between $\sqrt{7}$ and $9\sqrt{7}$

- (i) 21 (ii) $3\sqrt{7}$ (iii) $3\sqrt[4]{7}$ (iv) $3\sqrt{9}$ (v) $3\sqrt{5}$

33. Find two numbers whose mean proportional is 14 and third proportional is $\frac{2401}{4}$

- (i) 5 and 49 (ii) 4 and 48 (iii) 4 and 47 (iv) 4 and 49 (v) 6 and 49

Assignment Key

1) (ii)	2) (iii)	3) (ii)	4) (iv)	5) (v)	6) (v)
7) (iii)	8) (i)	9) (iii)	10) (v)	11) (ii)	12) (i)
13) (i)	14) (i)	15) (v)	16) (iv)	17) (ii)	18) (iv)
19) (ii)	20) (v)	21) (iv)	22) (v)	23) (i)	24) (iii)
25) (iv)	26) (iii)	27) (ii)	28) (ii)	29) (iv)	30) (v)
31) (v)	32) (ii)	33) (iv)			