

Class: 7

Subject: Mathematics

Topic: Ratio and Proportion

No. of Questions: 20

- Q1. The comparison of two quantities of the same kind by means of division is termed as _____.
- Q2. The two quantities to be compared are called the _____ of the ratio.
- Q3. The first term of the ratio is called the _____ and the second term is called the _____.
- Q4. In a ratio, only two quantities of the _____ unit can be compared.
- Q5. If the terms of the ratio have common factors, we can reduce it to its lowest terms by Cancelling the _____.
- Q6. When both the terms of a ratio are multiplied or divided by the same number (other than zero) the ratio remains _____. The obtained ratios are called _____.
- Q7. In a ratio the order of the terms is very important. (Say True or False)
- Q8. Ratios are mere numbers. Hence units are not needed. (Say True or False)
- Q9. Equality of two ratios is called a _____. If a, b, c, d are in proportion, then $a:b::c:d$.
- Q10. In a proportion, the product of extremes = _____
- Q11. Find 5 equivalent ratios of 2:7
- Q12. Reduce 270 : 378 to its lowest term.
- Q13. Find the ratio of 9 months to 1 year
- Q14. If a class has 60 students and the ratio of boys to girls is 2:1, find the number of boys and girls.

- Q15. A ribbon is cut into 3 pieces in the ratio 3: 2: 7. If the total length of the ribbon is 24 m, find the length of each piece.
- Q16. The ratio of boys to girls in a class is 4 : 5. If the number of boys is 20, find the number of girls.
- Q17. If $A : B = 4 : 6$, $B : C = 18 : 5$, find the ratio of $A : B : C$
- Q18. Fill in the blanks:
- (i) Ratio of 20 minutes to 2 hrs.
- (ii) $\frac{24}{18} = \frac{\quad}{3} = \frac{8}{\quad}$
- (iii) Are 13, 39 and 7, 21 is proportion ? _____
- Q19. Match the following :-
If a, b, c, d are first, second, third and fourth term of proportion, then
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| 1. First and fourth terms are | (a) product of middle values (bxc) |
| 2. Second and third terms are | (b) Extreme values |
| 3. Product of extremes (axd) | (c) middle values. |
- Q20. Solve
- (i) Divide 50 pen in the ratio 2 : 3
- (ii) The length and breadth of a rectangular field are in the ratio 5 : 4. If length is 20 m. for breadth of the field
- (iii) IF the cost of 12 m of cloth is Rs. 300, find the cost of 8m cloth.