



MATHS

BOOKS - JNAN PUBLICATION

PROPORTION

Example

1. The length of the room is 6.5 m and breadth is 3.9 m find the ratio of its length to its breadth.



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2. The shadows of two sticks of length 6 cm. and 8 cm. are 15 cm. and 20 cm. respectively. Find if the ratios of the lengths of sticks and their length of shadows are equal or not.



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3. Let's find if the pair of ratios given below are equal and also find if four members are in

proportion.

7:2 and 28:3



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4. Let's find if the pair of ratios given below are equal and also find if four members are in proportion.

9:7 and 18:14



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5. Let's find if the pair of ratios given below are equal and also find if four members are in proportion.

1.5:3 and 4.5:9



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6. Let's find if the pair of ratios given below are equal and also find if four members are in proportion.

7:3 and 5:2



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7. Let's find if the pair of ratios given below are equal and also find if four members are in proportion.

$$3ab : 4aq \text{ and } 6b : 8q$$

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8. Let's find if the pair of ratios given below are equal and also find if four members are in

proportion.

5.2:6.5 and 4:5



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9. Let's find if the pair of ratios given below are equal and also find if four members are in proportion.

3y : 7y and 12 p : 28p



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10. Let's find if the pair of ratios given below are equal and also find if four members are in proportion.

$5pq : 7pr$ and $15s : 21q$



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11. The age of A and B are in ratio.5:2 after 5 years their age will be in the ratio 15:7 . Find the present of A



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12. What number must be added to each of the numbers 5,9,7,12 to get the numbers which are in proportion?



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13. Fill in the blank squares :

5: 7 :: 30 : ?



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14. Fill in the blank squares :

$$8 : 5 :: ? : 25$$



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15. Fill in the blank square:

$$? : 35 :: 48 : 60$$



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16. Fill in the blank squares :

$$2 : 9 :: ? : 27$$



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17. Let's verify whether 24, 28, 36, and 48 are in proportion.



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18. Verify whether 10, 5, 14 and 7 are in proportion.



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19. Verify whether 14, 5, 10 and 7 are in proportion.



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20. If 36, 54, x are in continued proportion then find the value of x .



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21. From different proportions with 7, 8, 14, 16.



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22. From different proportions with 9, 11, 27 and 33.



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23. Find whether the sets of numbers are in continued proportion, and write the proportionality: 5, 10, 20



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24. Find whether the sets of numbers are in continued proportion, and write the proportionality: 8, 4, 2



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25. Find whether the sets of numbers are in continued proportion, and write the proportionality: 7, 14, 28



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26. Find whether the sets of numbers are in continued proportion, and write the proportionality: 81, 9, 18



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27. Find whether the sets of numbers are in continued proportion, and write the proportionality: 4, 6, 12



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28. Find whether the sets of numbers are in continued proportion, and write the proportionality: 4, 10, 25



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29. If 1^{st} term is 3, 2nd term is 6, 3^{rd} term is 7, then let's find the 4^{th} term.



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30. If ?, 8, 30, 20 are in proportion, then let's find the 1st term 1st term : 8 :: 30 : 20



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31. If in a proportion 3rd term is missing that is $5:8::*:64$. Let's then find * (missing term) that is the 3rd term of this proportion.



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32. Sunit bought 2 exercise books for Rs. 14.

Let's find how much he will pay for 7 such exercise books.



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33. A jeep covers a distance of 32 km. in 8 hours keeping the same speed, let's find how long the jeep will take to cover a distance of 120 km.



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34. 720g of cromium is needed to make 6kg of stainless steel. Find how much cromium will be needed to make 11 kg of stailless steel.



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35. There are 3 litres of syrup in 10 litres of a soft drink (sherbat). Find, how much syrup will be required to make 5 litres of soft drink.



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36. 8 men can do a piece of work in 15 days.

Find in how many days will 10 men finish the same work.



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37. 12 men had provision of food for 20 days.

Let's find if there are 40 men, how long will the provision last?



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38. Arunbabu used 16 ploughs to cultivate his whole land in 10 days. Find, if he wanted to cultivate the same land in 8 days, how many ploughs he would have needed.



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39. In a flood relief camp, there is a provision of food for 4000 people for 190 days. After 30 days, 800 people went away elsewhere. Find for how many days the remaining food lasts for the remaining people in this camp.



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40. The cost of 3 umbrellas or 1 chair is Rs. 600. Let's calculate the price of 2 umbrellas and 2 chairs.



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41. In two types of 'sharbat' the ratio of syrup and water are $2:5$ and $6:10$. Let's find, which one is sweeter.



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42. When water freezes into ice, its volume increase by 10%. Let's find the ratio of a certain volume of water and its corresponding volume of ice.



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43. My age is 12 years and my father's age is 42 years. Let's find the ratio of our ages.



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44. The ratio of story books and text books of preetam is $2:5$. If preetam has 4 story books, then find how many text books he has.



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45. For making a flower garland of hibiscus and Indian marigold, 105 of these flowers were collected. If the ratio of hibiscus and marigold is $3:4$, find how many hibiscus and marigold

are there. Also find how many more hibiscus must be collected so that the ratio of these two types of flowers become equal.



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