



MATHS

BOOKS - SUBHASH PUBLICATION

RATIO AND PROPORTION



1. There are 20 girls and 15 boys in a class. (a) What is the ratio of number of girls to the number of boys?



What is the ratio of number of girls to the total number of students in the class ?



3. Out of 30 students in a class, 6 like football,

12 like cricket and remaining like tennis. Find

the ratio of (a) Number of students liking

football to number of students liking tennis.



4. Out of 30 students in a class, 6 like football,

12 like cricket and remaining like tennis. Find the ratio of (b) Number of students liking cricket to total number of students.



5. See the figure and find the ratio of (a) Number of triangles to the number of circles

inside the rectangle.





6. See the figure and find the ratio of (b) Number of squares to all the figures inside the

rectangle.





7. See the figure and find the ratio of (c) Number of circles to all the figures inside the rectangle.





8. Distances travelled by Hamid and Akhtar in an hour are 9 km and 12 km. Find the ratio of speed of Hamid to the speed of Akhtar.



10. Find the ratio of the following:(a) 81 to 108



13. Find the ratio of the following:(d) 30 minutes to 45 minutes



14. Find the ratio of the following: (a) 30

minutes to 1.5 hours

15. Find the ratio of the following: (b) 40 cm to

1.5 m



16. Find the ratio of the following: (c) 55 paise

to ₹ 1



17. Find the ratio of the following: (d) 500 mL

to 2 litres

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18. In a year, Seema earns ₹ 1,50,000 and saves

₹ 50,000. Find the ratio of (a) Money that

Seema earns to the money she saves.

19. In a year, Seema earns ₹ 1,50,000 and saves

₹ 50,000. Find the ratio of (b) Money that she

saves to the money she spends.



20. There are 102 teachers in a school of 3300

students. Find the ratio of the number of

teachers to the number of students.



21. In a college, out of 4320 students, 2300 are girls. Find the ratio of (a) Number of girls to the total number of students.

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22. In a college, out of 4320 students, 2300 are girls. Find the ratio of (b) Number of boys to the total number of girls.

23. In a college, out of 4320 students, 2300 are

girls. Find the ratio of (c) Number of boys to

the total number of students.

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24. Out of 1800 students in a school, 750 opted basketball, 800 opted cricket and remaining opted table tennis. If a student can opt only one game,find the ratio of (a) Number of students who opted basketball to the number of students who opted table tennis.



25. Out of 1800 students in a school, 750 opted basketball, 800 opted cricket and remaining opted table tennis. If a student can opt only one game,find the ratio of (b) Number of students who opted cricket to the number of students opting basketball.



26. Out of 1800 students in a school, 750 opted basketball, 800 opted cricket and remaining opted table tennis. If a student can opt only one game,find the ratio of (c) Number of students who opted bsketball to the total number of students.

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27. Cost of a dozen pens is ₹180 and cost of 8

ball pens is ₹56. Find the ratio of the cost of a

pen to the cost of a ball pen.



28. Consider the statement: Ratio of breadth and length of a hall is 2 : 5. Complete the following table that shows some possible breadths and lenghts of the hall.



29. Divide 20 pens between Sheela andSangeeta in the ratio of 3 : 2.Watch Video Solution

30. Mother wants to divide ₹36 between her daughters Shreya and Bhoomika in the ratio of their ages. If age of Shreya is 15 years and age of Bhoomika is 12 years, find how much Shreya

and Bhoomika will get.





31. Present age of father is 42 years and that of his son is 14 years. Find the ratio of (a) Present age of father to the present age of son.

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32. Present age of father is 42 years and that of his son is 14 years. Find the ratio of (b) Age of the father to the age of son, when son was 12 years old.



33. Present age of father is 42 years and that of his son is 14 ears. Find the ratio of (c) Age of father after 10 years to the age of son after 10 years.

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34. Present age of father is 42 years and that

of his son is 14 years. Find the ratio of (d) Age

of father to the age of son when father was 30

years old.



36. Determine if the follwing are in proportion.

(b) 33,121,9,96



39. Determine if the follwing are in proportion.

(e) 4,6,8,12



40. Determine if the follwing are in proportion.

(f) 33,44,75,100

41. Write True (T) or False (F) against each of

the following statements :(a) 16 : 24 :: 20 : 30

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42. Write True (T) or False (F) against each of

the following statements :(b) 21 : 6 :: 35 : 10

43. Write True (T) or False (F) against each of

the following statements :(c) 12 : 18 :: 28 : 12

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44. Write True (T) or False (F) against each of

the following statements :(d) 8 : 9 :: 24 : 27

45. Write True (T) or False (F) against each of

the following statements :(e) 5.2 : 3.9 :: 3 : 4

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46. Write True (T) or False (F) against each of

the following statements :(f) 0.9 : 0.36 :: 10 : 4

47. Are the following statements true ? (a) 40

persons : 200 persons = ₹15 : ₹75



48. Are the following statements true ? (b) 7.5

litres : 15 litres = 5 kg : 10 kg



49. Are the following statements true ? (c) 99

kg : 45 kg = ₹ 44 : ₹20

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50. Are the following statements true ?(d) 32

m : 64 m = 6 sec : 12 sec



51. Are the following statements true ? (e) 45

km : 60 km = 12 hours : 15 hours

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52. Determine if the following rations form a proportion. Also, write the middle terms and extreme terms where the rations form a proportion. (a) 25 cm : 1 m and ₹ 40 : ₹160



53. De termine if the following rations form a proportion. Also, write the middle terms and extreme terms where the rations form a proportion. (b) 39 litres : 65 litres and 6 bottles : 10 bottles

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54. Determine if the following rations form a proportion. Also, write the middle terms and extreme terms where the rations form a proportion. (c) 2 kg : 80 kg and 25 g : 625 g



55. Determine if the following rations form a proportion. Also, write the middle terms and extreme terms where the rations form a proportion. (d) 200 mL : 2.5 litre and ₹4 : ₹ 50

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56. If the cost of 7 m of cloth is ₹ 1470, find the

cost of 5 m of cloth.





57. Ekta earns ₹3000 in 10 days. How much will

she earn in 30 days ?

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58. If it has rained 276 mm in the last 3 days, how many cm of rain will fall in one full week (7 days)? Assume that the rain continues to fall at the same rate.

59. Cost of 5 kg wheat is ₹91.50. (a) What will

be the cost of 8 kg of wheat ?

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60. Cost of 5 kg wheat is ₹91.50. (b) What

quanitty of wheat can be purchased in ₹183 ?

61. The temperature dropped 15 degree celsius in the last 30 days. If the rate of temperature drop remains the same, how many degrees will the temperature droop in the next ten days?



62. Shaina pays ₹15000 as rent for 3 monts.How much does she has to pay for a whole year, if the rent per month remains same?



63. Cost of 4 dozen bananas is ₹180. How many

bananas can be purchased for ₹90?

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64. The weight of 72 books in 9 kh. What is the

weight of 40 such books?

65. A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by the truck to cover a distance of 1650 km?

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66. Raju purchases 10 pens for ₹150 and Manish buys 7 pens for ₹84. Can you say who got the pens cheaper?

67. Anish made 42 runs in 6 overs and Anup made 63 runs in 7 overs. Who made more runs

per over ?

