MATHS

BOOKS - V PUBLICATION

LETTER MATH

Question Bank

1. In what all ways can we state the relätionship between the angles a line makes

on the two sides of another line? Can you' write each of these using letters?.

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2. In a 12 sided figure how many such lines can be drawn from one particular corner?

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3. What is the relation connecting the number of sides and number of lines in general?

4. What is the relation connecting the number of sides and the number of triangles?

5. A shopkeeper decides to sell something for a price 100 rupees more than what he bought it for. If he had bought it for 500 rupees, at what price would he sell it? What if the price

at which he bought is 600 rupees Here what is the relation between the prices at which he bought and the price at which he sells?

6. What if the postage is 30 rupees?

7. What if it is 35 rupees?

8. Now If the postage also chànges according to the price of the book, in what all ways can we say this relation? Write them using letters.

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9. The sides of a triangle are 4 centimetres, 6 centimetres and 8 centimetres. What is its perimeter? Denoting the length of the sides as

a, b, c and perimeter as p how do we write the relation between them?

10. What is the perimeter of a square of side 5 centimetres. What about a square of perimeter 6 cenitmetres? In what all ways can we say the relation between the length of a side and perimeter of a square?

11. How much money does 5 ten rupee notes make? What about 7 ten rupee notes? in what all ways can we say the number of ten rupee hotes and the total amount? Uṣing t to denote the number of ten rupee notes and a to denote the. total amount, in what all ways can we Write this relation?

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12. What is the area of a rectangle of length 5 centimetres and breadth 3 centimetres?

13. What is the total price of 5 pens, each of price 8 rupees? What is the price of 10 notebooks, each of price 12 rupees?

14. In whàt all ways can we say the relation bétween the price of something, the number bought and the total price?

15. Taking the price of an article as (p), their number as (n) and the total price as (t), in what all ways can we write the relations between (p), (n) and (t) ?

16. One litre of kerosene weighs 800 grams. What is the weight of 2 litres of kerosene?

17. Taking the weight of v millilitres of keroscene as w grams, write a relation between y and w.

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18. One cubic centimetres of iron weights 7.8 grams. Taking the volume of an iron object as v cubic centimetres and weight w grams, write a relation between v and

19. Taking the length, breadth and height of a rectangular block of Iron as l, b, h and its weight as w, write the relation between l, b, h and w.

20. Ravi has 3 ten rupee notes and a one rupee coin. Lissy has 5 ten rupee notes and a one

rupee coin. How much money does Ravi have? And Lissy?

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21. How much money does 8 ten rupee notes and 2 five rupee notes make?

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22. How do we say the relation between the number of ten rupee notes, the number of five

rupee notes and the total amount?

23. Taking the number of ten rupee notes as t, the number of five rupee notes as f and the total amount as a how do we write the relation between t, f and a ?

24. The price of a pen is 7 rupee and the price of notebook is 12 rupees. What is the total price of 5 pens and 6 notebooks?

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25. What about 12 pens and 7 notebooks?

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26. What is the reiation between the riumber of pens, the number of books and the total price?

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27. Taking the numbers of pens as (p) the number of notebooks as (n) and total price as t, how do we write the relation between them?

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28. What length of wire is need to make a trilangle of sides 10 centimetres each? To make a square of side 10 centimetres?

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29. What is. the total length needed to make 5 such triangles and 6 such squares?

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30. What is the relation between the number of iriangles, the number of squares and the total length of wire?

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31. Taking the number of triangles as (t), the number of squares as, (s) -and the total length as l how do we, write the relation between't, s and l ?

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32. There are 25 children in one room and 35 in another. 5 biscuits are to be given to each. How many biscuits are needed?

33. the number of children in one room is 20 and another room is 40? 5 biscuits are to be given to each. How many biscuits are needed?

34. In the picture, M is the point right at the middle of AC. What is the length of AM?

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35. If a 5 centimeter long line is extended by 4 centimetres, at what distance from end point of the-longer line is the point exactly at its middle?

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36. if a $7\dfrac{1}{2}$ centimetres long line is extended by $2\dfrac{1}{2}$ centimetres. what distance from end point of the longer line is the point exactly at its middle?

37. A line of length l centimetres is extended by e centimetres. The mid point of the long line, is (m) centimetres away from one of its

end points. What is the relation between l, e and (m)?

38. The length of a rectangle is 4 centimetres and its breadth is 3 centimetres. The length is Increased by 2 .centimetres to make a large rectangle.What is the area of the large rectangie?

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39. If we know the average and the total sum. Write the relation connecting to know the number of numbers?

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40. Represent 7 less than the product of two numbers.

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41. The length of a rectangle is 8 centimeters and its breadth is 4 centimeters. Write the area of the rectangle using letters and find out the area?

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42. What is the area of the rectangle having length 12 centimeters and breadth 7 centimeters?

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43. A manufacturing company sells its products at 10% profit. If the manufacturing cost of a product is Rs. 350 , at what price do they sell it?

44. The length of a rectangle is 10 centimetres and its breadth Is 4 centimetres. What is its perimeter?.

45. What is the perimeter of a rectangle of length 64 centimetres and breadth 36 centimetres?

46. What is the volume of a rectangular block of length 10 centimetres, breadth 8 centimetres and height 5 centimetres? Using l for length of rectangular block, b for its

breadth,h for its height and v for its volume, what is the relation between l, b, h and v?

47. The total turnover of a shop for 6 days is Rs. 360 . What is the average turnover for a day? If we write t for the total turnover in n days and a for the average turnover per day, how do we write the relation connecting t, n and a?

48. How much money does 4 ten-rupee notes and 3 five - rupee notes make? Using t for the number of ten rupee notes, f for the number of five rupee notes, and m for the amount of money they together make, write the relation connecting t, f and m :

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49. Shyam bought 5 two hundred page notebooks and 3 hundred page notebooks

from the school store. The price. of a two hundred page book is 9 rupees and the price of a hundred page book is 4 rupees. How much did Shyam spent? Use any letters you like for the number of two hundred page note books bought from this store, the number of hundred page books bought and the total amount of money spent by a student, and write the relation connecting them.

50. The cost of stitching a shirt is 50 rupees and the cost of stitching a pair of pants is 100 rupees using any letters you like for the number of shirts stitched, the number of pants and the total stitching cost, write the relation connecting them.

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51. Write the relation connecting the amount to be deposited in the hospital, amount paid

and balance amount using letters. If the amount paid is Rs. 400 and the balance amount is Rs. 1000 then find the amount to be deposited in the hospital?

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52. Write the relation connecting an odd number and its next odd number. Using this, find the adjacent odd number of the odd number 35

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53. If we know the average and the total sum,total number. Write the relation connecting them. If the average is 18 and the total sum is 126 then find the total number?

54. Write 3 consecutive counting numbers. Denote the middle number by any letter you like using this, number, write the other two numbers.

55. n is an even number. Write the previous number and the next number.

56. Write the relation to find the previous odd number of an odd number and the next odd number of an odd number.

57. Write the multiples of 5. Write the general form of it.

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