MATHS

BOOKS - V PUBLICATION

FRACTIONS

Question Bank

1. A bottle can hold 250 millilitres. How much water do we need to fill three such bottles?

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2. A packet can hold 500 grams of sugar. How much sugar do we need to fill four packets?

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3. In this picture, what tion of the triangle is coloured red?

The large triangle is divided into how many small triangles? Of these, how many. are coloured red?

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4. Find the answer to each of the problems below and then write it in words and as multiplication of numbers. i) What is the total weight of two pieces, of pumpkin, each weighing 250 grams? ii) What if the weight is put in kilograms?

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5. i) What is the total length of four pieces of ribbon, each of length 75 centimetres? ii) What if the length is put in metres?

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6. i) One cup can hold $\frac{1}{3}$ litre of milk How much milk can we pour in two cups?. ii) In four cups?

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7. A six metre long string is cut into two equal pieces.

How long is each piece?

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8. A 2 metre long ribbon is cut into three equal parts.

How long is each piece?

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9. What is quarter of five kilograms?

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10. If three litres of milk is equally divided among four persons, how much would each get?

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11. Find the answer to each of the problem below and then write it in words and as

multiplication of numbers. i) Nine litres of milk is equally shared by four kids. How much does each get? ii) What if it were shared by three?

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12. i) Six kilograms of rice is packed into four identical bags. How much rice is in each-bag? ii) What if it were packed into two bags?

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13. 1) An eight metre long string is cut into three equal parts.

What is the length of each piece?

ii) What if it were cut into six equal parts?

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14. A rectangle of area seven square centimetres is cut into three

equal : rectangles. What is the area of each?

ii) What if it were cut into four?

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15. i) Twelve children are divided into four equal groups.

How many chitdren are there in each group?

ii) What if they were divided into three groups?

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16. If 4 strings of length $\frac{1}{3}$ metre were laid end to end, what would be the total length?

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17. Similarly, how do we calculate 4 xx $\frac{2}{3}$?

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18. A bottle can hold $\frac{3}{4}$ litre of milk. How many litres of milk

is there in 7 such bottles?

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19. An iron block weighs $\frac{1}{4}$ kilogram.

i) What is the weight of 15 such blocks?

ii) What about 16 blocks?

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20. Each of some iron rods, of length 2 metres is cut into five equal pieces.

i) What is the length of each piece?

ii) What is the total length of 4 such pieces?

iii) What about 10 such pieces?

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21. There are some cans, each containing 5 litres of milk. The milk in each vessel is used to fill 6 identical bottles. i) How much milk is there in each bottle?. ii) How much milk in 3 such bottles? iii) In 12 bottles?

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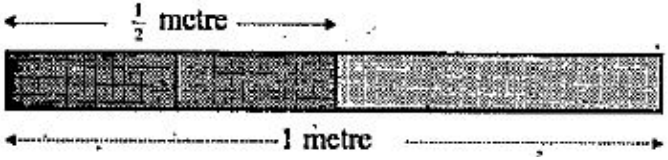
22. Suhara has 1 metre long silk ribbon. She gave half of it to Soumya. She in turn gave half

of this to Reena. What is the length of the piece Reena got? Like this, what $\frac{1}{4}$ of $\frac{1}{3}$ metre? Can you calculate $\frac{1}{6}$ of $\frac{1}{4}$ like this?



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23. What $\frac{1}{4}th$ of $\frac{1}{3}$ metre is?

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24. Can you calculate $\frac{1}{6}$ of $\frac{1}{4}$?

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25. A string of length one metre is cut into five equal parts. What is the length of half of one such piece? How many centimetres?

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26. One litre of millk fills two identical bottles. A quarter of the milk in one bottle is used to make a cup of tea. How much milk was used to make tea?'Hòw many millilitres?

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27. One kilogram yam is cut into three equal pieces. One of the

pieces is halved. What is the weight of this piece?

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28. Half the children in a class are girls. A third of them are in the Math Club. What fraction of the total class are they?

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29. Calculate the following . Write them as products. i) $\frac{1}{4}$ of $\frac{1}{2}$ ii) $\frac{1}{2}$ of $\frac{1}{4}$ iii) $\frac{1}{5}$ of $\frac{1}{3}$ iv) $\frac{1}{3}$ of $\frac{1}{5}$ v) $\frac{1}{6}$. of $\frac{1}{3}$ vi) $\frac{1}{3}$ of $\frac{1}{6}$

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30. A can is full of milk. It is used to fill three identical bottles. Each bottle is used to fill four cups. What portion of the milk in the can does each cup contain?

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31. Two litres of milk is used tò fill three bottles of the same size.

A quarter of one such bottle is poured into a glass. How mụch

milk is in the glass?.

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32. $\frac{1}{2}$ kilogram of rice is equally filled in 4 bags. If we take 3 such bags together, how

much rice do we get? Can you find $\frac{2}{5}$ of $\frac{1}{3}$ like this? Can't we find $\frac{4}{9}$ of $\frac{3}{5}$. like this?

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33. Draw the line AB, 12 centimetres long. Mark C on it such that AC is $\frac{2}{3}$ of AB. Mark D such that AD is $\frac{1}{4}$ of AC. What portion of AB is AD?

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34. A two-metre long rope is cut into five equal pieces. What is the length of three quarters of one piece? How many centimetres is this?

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35. Three litres of water is used to fill four identical bottles. One bottle is used to fill five identical cups. How much water Is in one cup? How many millilitres is this

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36. A five kilogram pumpkin is cut into five equal pieces. Each piece is further cut into two. What is the weight of each such piece? How many grams is this?

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37. Calculate each of the following using multiplication.

(i) $\frac{3}{7}$ of $\frac{2}{5}$

(ii) $\frac{3}{5}$ of $\frac{2}{7}$

(iii) $\frac{2}{3}$ of $\frac{3}{4}$

iv) $\frac{5}{6}$ of $\frac{3}{10}$.

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38. $1\frac{1}{2}$ metres of cloth is needed for a shirt. How much cloth is needed for five such shirts?

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39. The price of one kilogram of okra is 30 rupees. What is the price of $2\frac{1}{2}$ kilograms?

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40. A man walks one and a half kilometres Is one hour. How many kilometres does he walk in one and a half hour at this 'speed?

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41. Rony has 36 stamps. Zaheera says she has $2\frac{1}{4}$ times as much. How many stamps does she have?

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42. Calculate the following:

1) $4 \times 5\frac{1}{3}$

ii) $4\frac{1}{3} \times 5$

iii) $1\frac{1}{2} \times \frac{2}{3}$

iv) $\frac{2}{5}$ of $2\frac{1}{2}$

v) $2\frac{1}{2} \times 5\frac{1}{2}$

vi) $4\frac{1}{3}$ of $4\frac{1}{2}$

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43. The length and breadth of some rectangles are given below. Calculate their areas.

i) $4\frac{1}{2}cm, 3\frac{1}{4}cm$

ii). $6\frac{3}{4}m, 5\frac{1}{3}m$

iii) $1\frac{1}{3}m, \frac{3}{4}m$

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44. What is the area of a square of side $1\frac{1}{2}$ metre?

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45. The perimeter of a square is 14 metres. What is its area?

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46. The length of one string is 4 metres and the length of another string is 14 metres, i) How much times of the longer string is the shorter string? ii) What portion of the shorter string is the longer string?

A. `

B.

C.

D.

Answer:

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47. One iron block weighs 6 kilogram and another, 26 kllogram.

i) How much xx the weight of the heavier block

is the lighter block?

ii) What tion the weight of the lighter block is the heavier.biock?

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48. A pumpkin is cut into three equal pieces. Two pieces together weigh one kilogram. What is the weight of the whole pumpkin?

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49. $1\frac{1}{2}$ litres of water is needed to fill $\frac{3}{4}$ of a can. How much water is needed to fill it completely?

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50. There are three pieces of ribbon. Two of the pieces and half the third piece, laid end to.end, make one metre. What is the length of a.piece, in centimetres?

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51. The area of a rectangle is 85 squaremetre.and the length of one of its sides is 5 metres. What Is the length of the other side?

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52. The area of a rectangle is $\frac{1}{2}$ square- metre and the length of one side is $\frac{3}{4}$. metre. What is the length of the other side?

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53. To fill $\frac{3}{4}$ of a vessel, $1\frac{1}{2}$ litres of water is needed. How much water would it be, if it is completely filled?

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54. 12 litres of oil is to be stored $\frac{3}{4}$ litre bottles. How many bottles are needed?

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55. Describe each of these problems using division or reciprocals. and find the answer. 1) A 16 metre rod is cut into $\frac{2}{3}$ metre pieces. How many pieces do we get?

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56. $5\frac{1}{4}$ litre of water is to be stored in $\frac{3}{4}$ litre bottles. How many bottles do we need?

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57. $12\frac{1}{2}$ kilograms of sugar is to be packed in $2\frac{1}{2}$. kilogram bags. How many bags do we need?

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58. The area of a rectangle is $12\frac{1}{2}$ square centimetres.and the length of one side of its side is. $3\frac{3}{4}$ centimetres. What is the length of the other side?

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59. From $11\frac{1}{2}$ metre rope, $2\frac{1}{2}$ metre pieces are cut out. How many pieces do we get? What is the length of the remaining piece?

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60. $\frac{2}{3}$ of 16

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61. 12 times of $\frac{3}{7}$

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62. $\frac{4}{7}$ of 25

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63. 10 times of $\frac{4}{5}$

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64. $\frac{2}{7}$ of $\frac{1}{4}$

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65. $1\frac{1}{2} \times 6\frac{2}{3}$

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66. $2\frac{3}{4} \times \frac{5}{8}$

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67. $\frac{4}{7}$ of $\frac{3}{5}$

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68. $\frac{3}{4}$ of $2\frac{3}{5}$

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69. $1\frac{1}{4}$ x $\frac{3}{7}$

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70. A 9 metre ribbon is cut into $\frac{3}{5}$ metre pieces. How many pieces do we get? -

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71. $10\frac{1}{2}$ kilograms of sugar is to be packed in $\frac{2}{5}$ kilogram bags. How many bags. do we need? What is the weight of the remaining sugar?

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72. When Raju talked with the teachers who reached his house for census, he understood that half of the population in his village were male and $\frac{1}{3}$ of the male were illiterate. What part of the total population is illiterate male?

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73. Aluminium sheets were bought to make doors for the bath rooms in the houses of Jawahar one lakh housing colony. One sheet measures $43\frac{3}{4}$ metres. How many doors

measuring $1\frac{1}{4}$ metre length can be made using this sheet?

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