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## MATHS

## BOOKS - JNAN PUBLICATION

## RATIO

Example

1. There are 60 boys and 30 girls in Supriay's
class. Let's find the ratio of number of boys to
number of girls in Supriya's class.
2. The length of a lizard is 30 cm . and the length of a crocodile is 5 m . Let's find the ratio of their lengths (Let's do ourselves).

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3. If the numbers in ratio are multiplied or divided by any number other than zero, let's verify if the ratio remains the same.

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4. 1 kg . of rice costs Rs. 60 and 1 kg . of pulse cost Rs. 120. Let's find the ratio of the price of rice and pulse.

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5. 


$\angle B A C: \angle A B C: \angle A C B=w^{\wedge} ?$

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6. The price of a pencil is Rs. 5 and the cost of a tofee is 50 paise. Let's write the ratio of the
prices of a Pencil and a toffee.

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7. Let's find the ratio of the values of a 50 p.coin, a rupee coin, and a three Rupees Coin.

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8. Present age of Seema is 22 years and the age of her Brother is 26 years. Find the ratio of Seema's age to her Brother's age after 10 years.
9. Let's write the ratio of the angles of a right angled isoscale triangle.

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10. Let's write the ratio of the angles of a right angled isoscale triangle.

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11. The ratio of the ages of Pulak Babu and

Manik Babu is $5: 8$ If the age of manikbabu is
64 yrs. Let's find the age of Pulak Babu.

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12. The ratio of the prices of two books is $5: 8$.

If the Price of the first book is 32.50 . Let's find the price of the other book.
13. The ratio of the circumference and area of a circle is 2:7, Find it's circumference.

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14. Two numbers are in the ratio 3 : 5 . If 8 is added to each number, the ratio becomes 2:3.

Find the numbers.

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# 15. Reduce the following into their lowest form 

 and lets find their inverse ratios.$12: 15$

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16. Reduce the following into their lowest form and lets find their inverse ratios.

36 : 54

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17. Reduce the following into their lowest form and lets find their inverse ratios.

75: 120

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18. Reduce the following into their lowest form
and lets find their inverse ratios.
169: 221
19. Reduce the following into their lowest form and lets find their inverse ratios.
$9 x y: 12 x y$

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20. Reduce the following into their lowest form and lets find their inverse ratios.

429: 663

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# 21. Reduce the following into their lowest form 

 and lets find their inverse ratios.$3 b: 12 c$

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22. Reduce the following into their lowest
form and lets find their inverse ratios.
$25 x y z: 625 x y z$ (Where $a, b, x, y, z$ are not zero).
23. Reduce the following into ratio of whole number and lets find their inverse ratio.
$2.5: 12.5$

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24. Reduce the following into ratio of whole number and lets find their inverse ratio.
$\frac{5}{8}: \frac{7}{16}$

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25. Reduce the following into ratio of whole number and lets find their inverse ratio.
0.7: 0.49

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26. Reduce the following into ratio of whole number and lets find their inverse ratio.
$\frac{2}{5}: \frac{3}{4}$

- Watch Video Solution

27. Reduce the following into ratio of whole number and lets find their inverse ratio.
$22: 4 \frac{5}{7}$

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28. Reduce the following into ratio of whole number and lets find their inverse ratio. $\frac{7}{15}: \frac{3}{20}$
29. Reduce the following into ratio of whole number and lets find their inverse ratio.
$1 \frac{2}{5}: \frac{7}{10}$

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30. Reduce the following into ratio of whole number and lets find their inverse ratio.
4.4: 5.61
31. Let's find the mixed ratio of the following ratios and lets identify the mixed ratio and find if these are the ratios of greater or lesser inequality or ratio of equality.
$8: 6,3: 6$ and $26: 13 `$

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32. Let's find the mixed ratio of the following ratios and lets identify the mixed ratio and find if these are the ratios of greater or lesser
inequality or ratio of equality.
$5: 3, \frac{5}{7}: 1 \frac{1}{16}$ and $3: 16$

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33. In the ratio 7: 8 . If the consequent is 40 , what a the antecedent.

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34. Let's find the mixed ratio of the following
ratios and lets identify the mixed ratio and
find if these are the ratios of greater or lesser inequality or ratio of equality. $\frac{2}{3}: 5, \frac{7}{8}: 2$

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35. Out to 100 Sums, Rita got 60 sums correct out of 80 of those sums, Binoy got 50 sums correct. Let's express them in ratio to find, who get more sums correct.

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36. In this year's madhyamik Examination out of 150 examinees of our school, out 100 examinees passed with grade -A. In another nearby school out of 100 examinees, 80 examinees passed with grade-A. Let's find which school has got a better result getting grade-A, in this year's Madhyamik Examination.

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37. Two numbers are in ratio 3:4 if their L.C.M is 180 find the numbers.

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38. From a bamboo, a piece of bamboo is cut off. It is found that the ratio of the two pieces
is $3: 1$. From the table below, find the possible lengths of two pieces and the length of the bamboo.

| Ratio | Length of first <br> piece | Length of second <br> piece | Length of Bamboo |
| :---: | :---: | :---: | :---: |
| $3: 1$ | 30 dcm. |  |  |
| $3: 1$ |  | 15 dcm. |  |

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39. Last year the ratio of literate and illiterate people or Rashkundu Village was 5:4. If the population of the Village is 5454, Let's find the number of lierate an illiterate people.

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40. If Rs. 640 is divided amnong Bishu and

Aparna in the ratio of $5: 3$, Let's find how much each would get.
41. The ratio of copper and zincin an alloy is

9:5. If the weight of copper in the alloy is 48.6 grams find the weight of the zinc.

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42. Out of 143 girls of school, the ratio of the number of girls who can sing and those who cnan dance is $9: 2$. If 3 more girls were found to Sing, then let's find the new ratio of girls who can sing and those who can dance.
43. Ratio of monthly income to savings of a family is $11: 2$ if the savings be 2500 . Find the income and expenditure.

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44. The monthly income of a man is rs. 24,750 .

He pays house rent of Rs. 750 and the remaining money is spent for household
expenses and the education of children in the ratio of $3: 1$. Let's find how many money is spent on household expenses.

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45. In a certain year, Vivekanda Youth Library
received a Govt. grant of Rs. 74,350 and collected a subscription or Rs. 4,350. Also, they got Rs. 1300 by selling old papers etc. If the entire money is spent on buying new books,
for binding of old books and paying salary to
employees in the ratio of $15: 3: 2$. Now let's
calculate for how much new book were bought.

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46. 1050 people have come for a training at a traning centre. They were asked to sit in three
big room in the ratio of $11: 3: 3 \frac{1}{2}$. Let's find how many people will sit in each room.

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47. Rs. 12,100 is divided amogn Madhu, Manas,

Kuntal and Indra in the ration of $2: 3: 4: 2$, Let's calculate how much each will get,

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48. Sum of the three angles of a triangle $A B C$ is $180^{\circ}$. The ratio fo $\mathrm{BAC}, \angle A B C$ and $\angle A C B$ is $3: 5: 10$. If the value of $\angle B A C$ is decreased by $10^{\circ}$ and values of $\angle A B C$ is increased by $10^{\circ}$. Let's calculate the new ratio of the three angles.
49. Two numbers are in ratio 5:9. On subtracting 3 from each of the ratio it becomes 1:2 find the numberrs.

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50. A sum of rs 5500 is to be divided between
raman and amen in the ratio 2:3. How much
will each get?
51. Ratio of the income and expenditure of a family is $7: 6$. Find the savings if the income is 1400.

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52. Aminoor uncle cultivate brinjal and potato
in the ratio of $4: 3$ in his 35 katha land. He made a profit Rs. 150, per katha for brinjal and Rs. 125 per katha for potato. Let's calculate the
total amount of profit of Aminoor uncle form
his cultivation of brinjal and potato.

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