



MATHS

BOOKS - MAXIMUM PUBLICATION

PAIRS OF EQUATIONS



 In a rectangle of perimeter one metre, one side is five centimetres longer than the other.
 What are the length of the sides.



2. A class has 4 more girls than boys. One day when only 8 boys were absent, the number of girls were twice that of boys. How many girls and boys are there in the class?

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3. A man invested 10000 rupees, split into two schemes, at annual rates of interest 8% and

9% . After one year he got 875 rupees as interest from both. How. much did he invest in each?

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4. A three and a half metres long rod is to be cut into pieces. One piece is to be bent into a square and the other into an equilateral triangle. The length of a side of both must be the same. How should it be cut?



5. The distance travelled in t' second s by an object starting with a speed of u metres/second and moving along a straight line with speed Increasing at the rates of a metres/second every second is given by $ut + \frac{1}{2}at^2$ metres. An object moving in this manner travels 10 metres in 2 seconds and 28 metres in 4 seconds with what speed did it start? At what rate close its speed change?

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6. The sum of the digits of a two digit number is 11. The number got by interchanging the digits is 27 more than the original number. What is this number?



7. A 50 centimetre long rod is to be cut into two pieces, one of which is to be bent to form a square and other is to be bent to form an equilateral triangle. The length of a side of the equilateral is twice the length of the side of a square. Find the length of the side of a square

and equilateral triangle.



8. If 2 is added to the denominator of a fraction we get $\frac{1}{4}$. If 1 is added to numerator and simplified we get $\frac{2}{5}$. What is the fraction?

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9. The ages of Ajay and Alwin are in the ratio 9:4. After seven years, the ratio of their ages

will be 5:3. Find their ages.



10. The ten's digit of a two digit number is three times the unit digit. The sum of the number and the unit digit is 32.Find the number. **11.** The result of dividing a number of two digits by the number with the digits

interchanged is $1\left(rac{3}{4}
ight)$. if the sum of the digit

is 12. Find the number.

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