



PON VIDYASHRAM GROUP OF CBSE SCHOOLS
ANNUAL EXAMINATION (2017-18)
MATHS WORKSHEET

Name: _____

Date: _____

Roll No: _____

Std: VII Sec: _____

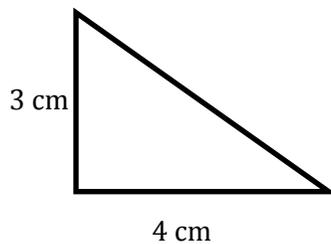
I. Answer the following:

- i) If one side of a \triangle is produced, the exterior angle so formed is equal to _____
- ii) A _____ connects a vertex of a \triangle to the midpoint of opposite side.
- iii) _____ is 50% more than 60.
- iv) The additional amount paid by the borrower is called the _____.
- v) $12\frac{1}{2}\%$ of 25g is _____.
- vi) The magnitude of the region enclosed by a plane figure is called its _____.
- vii) One revolution of a wheel is equal to its _____.
- viii) An _____ is a statement of equality which contains one or more unknown variables.
- ix) An equation containing only one variable in first degree is called a _____.
- x) If 17 is subtracted from a number, the result is 39, then the number is _____.
- xi) If one sixth of a number equals 4, then the number is _____.
- xii) For what value of x are $6x-14$ and $4x-10$ equal?
- xiii) $(-1)^{95} =$ _____ value.
- xiv) Another name for reflection symmetry is _____.
- xv) A rotational symmetry of order _____ is also called point of symmetry.
- xvi) The 2D representation of 3D solid is called a _____.
- xvii) A prism with _____ base is called triangular prism.
- xviii) The number of times a figure matches itself after rotation is called _____.
- xix) An equality relation between two ratios is _____.
- xx) The linear pair angles are _____ angles.

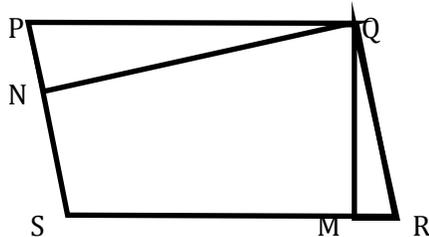
II. Answer the following:

- i) The length of a rectangle is 2 less than three times its breadth. The length of the rectangle is 7 cm.
- ii) Solve
 - (1) $2y + 5/2 = 37/2$
 - (2) If 1 is subtracted from twice a number the result is 15. Find the number.
- iii) Solve
 - (1) $2m-5 = 5/3$
 - (2) $t/8 + 1/4 = 3/2$
- iv) $10/3 - 2/3[x - x/2] = 3x$
- v) Raju is 6 years less older than 14 times the age of his son. If the sum of their ages is 39, find their ages
- vi) $1/3^{\text{rd}}$ of the dots in a frock are green, $2/3^{\text{rd}}$ of them are blue and the remaining 40 are red. How many dots are there in each colour?
- vii) Find the quantity if 12% of 'x' is 1080.

- viii) Juhi sells a washing machine for Rs.13500. She loses 20% in a bargain. What was the price at which she bought it?
- ix) A sum of money amounts to Rs.6030 in 2 years at a rate of 10% p.a. simple interest. Find the sum.
- x) If Rs.250 is to be divided amongst Ravi, Raju and Roy so that Ravi gets 2 parts, Raju gets 3 parts and Roy gets 5 parts, how much money will each get?
- xi) Satpol walks $\frac{2}{3}$ km from a place P towards east and then from there, $1\frac{5}{7}$ km towards west. Where will he be now from the start?
- xii) A wire is in the form of a square of side 10 cm. the wire is re-bent to form a rectangle of length 12 cm. Find the breadth.
- xiii) The area of a square and a rectangle are equal. If the side of a square is 40 cm and the breadth of the rectangle is 25 cm find the length and the perimeter.
- xiv) The area of a square park is the same as of a rectangular park. If the side of the square park is 60m and the length of the rectangular field is 90m, find its breadth.
- xv) Find the area of the triangles:



- xvi) Area of a parallelogram is 100 cm^2 . If its base is 12.5cm, find its height



$$SR = 12\text{ cm}$$

$$PS = 8\text{ cm}$$

$$QM = 7.6\text{ cm}$$

Find QN

- xvii) Area of a triangular part is 420 m^2 . If its base is 35m, find its height.
- xviii) A circular flower bed surrounded by a path 4m wide. The diameter of the flower bed is 66m, what is its area.

- xix) Find the perimeter of the given figure

