

# सहावी – गणित (इंग्रजी माध्यम)



**Maharashtra Academic Authority, Pune 30.**

**Educationally Progressive Maharashtra (EPM)**

**Test for Academic Progress : Summative Evaluation 2 : 2017-18**

**Standard : Six - Subject : Mathematics (Written)**

Student's Name : \_\_\_\_\_ Roll No. :

School's Name : \_\_\_\_\_ Div. : \_\_\_\_\_

Center : \_\_\_\_\_ Taluka : \_\_\_\_\_ District : \_\_\_\_\_ Date : \_\_\_\_\_ / \_\_\_\_\_ / 2018

Q. No.	1	2	3	4	5	Practical/ Oral	Total	Teacher's Signature
Marks Obtained								
Maximum Marks	8	8	8	8	8	10	50	

**Write here the answers of oral questions. (Each question carries one mark.)**

**M 1**

**M 2**

**M 3**

**M 4**

**M 5**

## Written Test

Each sub-question carries one mark. (Solve the examples in the blank space, if necessary.)

Q. 1 A) Write the number in figure.

Twenty seven thousand three hundred twelve =

B) Write in words.

3407 = \_\_\_\_\_

C) 6403 write the place value of digit 6 in the given number.

D) Write the following number in expanded form.

73,102 =

E) Add.

$$\begin{array}{r} 5264 \\ + 3237 \\ \hline \end{array}$$

F) Subtract.

$$\begin{array}{r} 6534 \\ - 2317 \\ \hline \end{array}$$

G) Multiply.

$$\begin{array}{r} 136 \\ \times 12 \\ \hline \end{array}$$

H) Divide.

$$8 \overline{) 745}$$

**Q. 2 A)** Subtract.

$$(-5) - (-7)$$

**B)** Divide.

$$\frac{3}{8} \div \frac{1}{4}$$

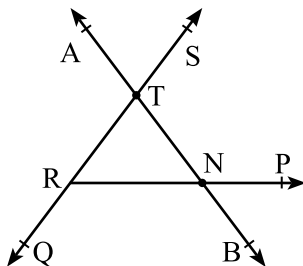
**C)** Circle the number completely divisible by 3.

653    187    243    508

**D)** Two sticks, one 16 cm and other 48 cm long are to be cut into pieces of same length. What will the maximum possible length of each piece be ?

**E)** From a grocery shop, Gauri bought 2.250 kg sugar, 1.500 kg rice and 0.750 kg dal, total how many kilogram of grocery did she buy?

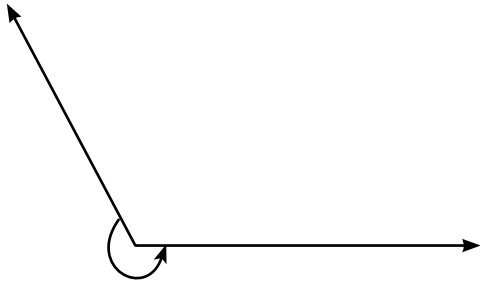
**F)** From the following figure write the name of one line and one ray.



line \_\_\_\_\_

ray \_\_\_\_\_

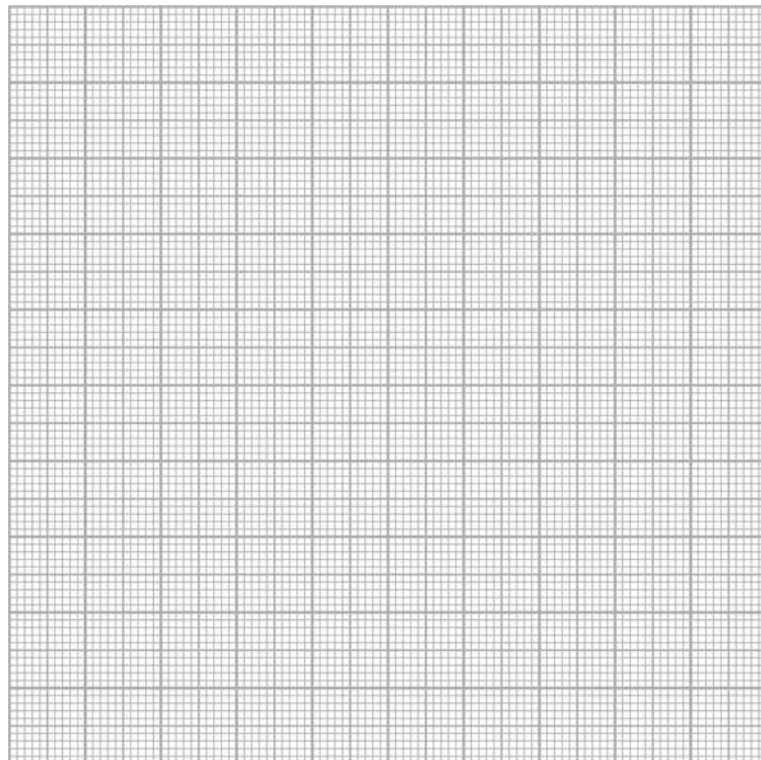
**G)** Name the type of angle shown by arrow in the following figure.



**H)** 'Let's Play' under this program following table shows number of students playing different games. Use the data to make a bar graph.

(Scale : on Y axis 1cm = 10 students)

Type of Game	Kho-Kho	Running race	Cricket	Lagori
Number of Students	40	55	35	20



**Q. 3 A)** In one garden there are 40 saplings of rose and 50 saplings of hibiscus flower. Find the ratio of rose to hibiscus flower.

**B)** Convert the following fraction into percent.

$$\frac{15}{25} =$$

**C)** Rahim bought apples for Rs. 1500 and sold all of them for Rs. 1800  
Did he incur profit or loss ? How much ?

**D)** Solve the following equation.

$$y - 5 = 12$$

**E)** Read the following example and fill in the boxes given below.

Sameer deposited 15000 rupees in a bank at the rate of 7 p.c.p.a. for one year. He received Rs. 1050 as an interest at the end of the year.

Principal

Time

Rate

Interest

F) Circle the isoscales triangle from the given options.

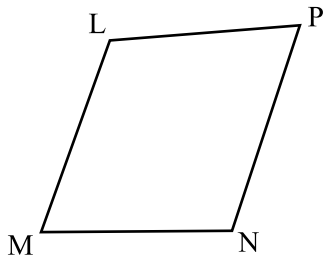
a) 3 cm, 6 cm, 5 cm

b) 4 cm, 3 cm, 4 cm

c) 6 cm, 5 cm, 4.5 cm

d) 6 cm, 5 cm, 4 cm

G) Write the pair of opposite sides from the following figure □LMNP.

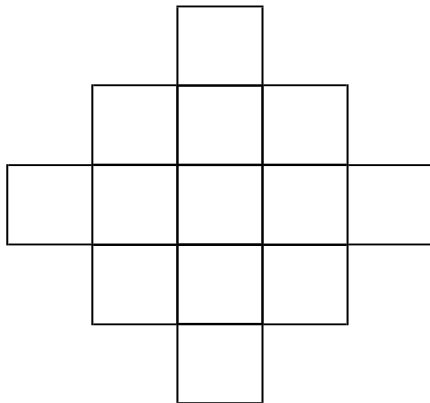


1) \_\_\_\_\_

2) \_\_\_\_\_

H) Draw a line  $l$ . Take a point Q outside it. Draw a perpendicular on line  $l$  from point Q using compass.

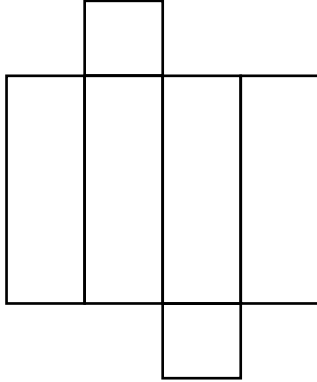
Q. 4 A) In the following figure colour the 5 squares using pencil. Find the ratio of coloured squares to total number of squares.



\_\_\_\_\_

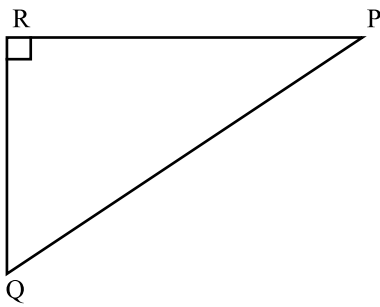
- B)** Out of 13500 sq.m. farmland possessed by Ashok, 30% of the farmland is not ploughed. Find the area of farmland ploughed by him.
- C)** A merchant bought a T. V. set for ₹ 7500 and sold it for ₹ 8250. Find the profit percent in this transaction.
- D)** Joy kept ₹ 10,500 in bank at the rate of 8 p.c.p.a. for one year. Find the amount Joy gets after one year.
- E)** Write the mathematical expression for; 'Five added to a number gives 21'.

**F)** By folding the following figure, write the name of vertices of the three dimensional figure.



Number of vertices =

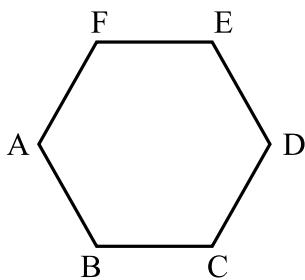
**G)** Measure all the angles of  $\Delta PQR$  write them.



i)  $m\angle Q =$

ii) The type of  $\Delta =$  \_\_\_\_\_

**H)** Find the sum of measures of all angles of a Hexagon in the following way.



With the help of scale draw line AC, AD and AE.

i) Write the number of triangles formed.

ii) The sum of all angles of Hexagon =

Number of triangles  $\times$  Sum of all angles of triangles

=   $\times$

=



**Q. 5 A)** From the following information form an equation and find the value of the equation. Sarita's age is 8 years more than the sum of the ages of her two kids. If the sum of the ages of her kids is 37 years, then find Sarita's age.

**B)** If the picnic expenses of 20 children is ₹ 1600, then find the picnic expense of 25 children.

**C)** Cost of one article is ₹ 400. If the same article is sold at ₹ 600 by the shopkeeper, then find the profit % or loss % incurred by the shopkeeper.

**D)** All the three lengths of a triangle are given. State with reasons, whether a triangle can be constructed using the following dimensions.

7 cm,      6 cm,      5 cm

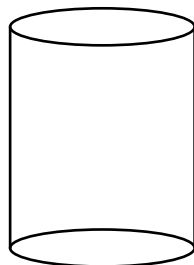
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**E)** Draw line RT. Take a point 'N' on the line and using a compass construct perpendicular bisector to the line RT from point N.

**F)** A senior citizen deposited ₹ 8000 in a fixed deposit scheme at 11 p.c.p.a. Find the interest he receives at the end of one year.

**G)** From the following three dimensional figures, find the number of faces and write in the box.



Number of faces

**H)** Write the name of three dimensional shape obtained by folding the following figure in the given box.

