

# सातवी - गणित (इंग्रजी माध्यम)



**Maharashtra Academic Authority, Pune 30.**

**Educationally Progressive Maharashtra (EPM)**

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

**Standard : Seven - 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	10	10	10	10	10	10	60	

**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 of Q. 1 to Q. 3 carries 1 mark. (Solve the example in blank space, if necessary.)

Q. 1 A) Write the number in words.

56789 \_\_\_\_\_

B) Write the number in figures.

Forty nine thousand five hundred seven

C) Add.

$$\begin{array}{r} 7292 \\ + 2204 \\ \hline \end{array}$$

D) Add.

$$\begin{array}{r} 9604 \\ + 397 \\ \hline \end{array}$$

E) Subtract.

$$\begin{array}{r} 3242 \\ - 224 \\ \hline \end{array}$$

F) Multiply.

$$\begin{array}{r} 258 \\ \times 15 \\ \hline \end{array}$$

G) Divide.

$$\begin{array}{r} \overline{)6237} \\ 11 \end{array}$$

**H)** In a grampacnchayat election 4572 men and 5002 women voted. Find the total number of votes.

**J)** For Mass P. T. exercise there are 15 students in one row. If there are 18 such rows, then how many students are there for Mass P. T in all ?

**L)** Fill in the blank with the correct number.

$$42,000 + 700 + \dots\dots\dots = 42702.$$

**Q. 2 A)** Multiply.

$$(-65) \times (-7) = \boxed{\phantom{0000}}$$

**B)** Write the simplest form.

$$38 \div (-152) = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

**C)** Fill in the blank with appropriate number.

$$\frac{2}{3} \times \boxed{\phantom{00}} = 1$$

**D)** Put brackets on appropriate places to make the following equation true.

$$10 \times 4 + 3 - 2 = 68$$

**E)** Write mathematical expression for the following statement.

' Three subtracted from thrice a number is equal to 33 '.

**F)** Write the number 4400000000 in the standard form using the powers of 10.

**G)** Evaluate.  $4^4 \times 4^{-4} = \dots\dots\dots$

**H)** Cancel the wrong word from the following;

If  $(-1)^m = 1$ , then m is **even/odd** number. ( $m \neq 0$ )

**J)** The point at which the perpendicular bisectors of a triangle meet is called. (Tick (✓) the called alternative.)

(1) In-centre            (2) Circumcentre    (3) Centroid    (4) Orthocentre

**L)** Circle the twin prime number.

(21,22)    (29,31)    (41,37)    (13,15)

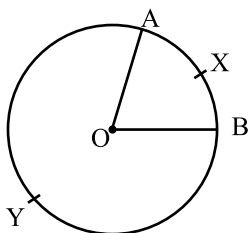
**Q. 3 A)** If 8 kgs of sugar costs Rs. 320, then find the cost of 5 kgs of sugar.

**B)** 5 workers complete the work in 15 days. If the same work has to be completed in 3 days, then how many workers will be needed ?

**C)** ₹ 3500 was divided in the ratios of 4 : 3 between Samir and Sudha, then find the amount that Sudha receives.

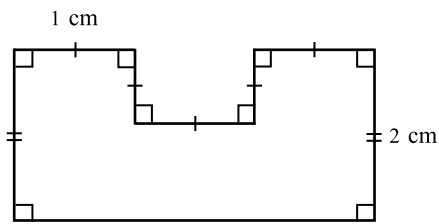
**D)** Find the simple interest on ₹ 1000 at the rate of 10 p.c.p.a for 2 years.

**E)** Name the major arc in the following figure.



\_\_\_\_\_

**F)** Find the perimeter of the following figure.



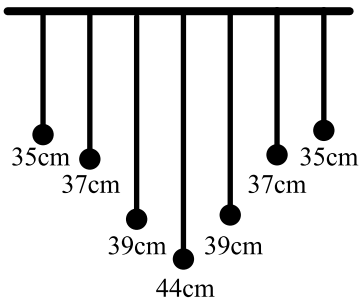
**G)** Shabana wants to give birthday gift to her friend. The gift was kept in a cuboidal box of 11cm *length*, 8 cm *breadth* and height of 5 cm. She wants to cover the box completely by a coloured paper. Find how much paper will be required.

**H)**  $(3k, 4k, 5k)$  are the Pythagorean triplet. Find the Pythagorean triplet where 'k' is a natural number.

**J)** Multiply.

$$(3x + 8)(3x - 8)$$

- L) The length of the strings on a wall piece are 35 cm, 37 cm, 39 cm, 44 cm, 39 cm, 37 cm and 35 cm. Find the average length of all the strings.



**Q. 4 and 5 : Each sub-question carries 2 marks.**

- Q. 4 A) Saniya and Atharwa started a business by investing ₹ 35000 and 28000 respectively. At the end of the year they got a profit of ₹ 18000. They added the profit to their investments. so find the amount each one invested for the next year.

- B) The simple interest on a certain amount at  $10\frac{1}{2}$  p.c.p.a. for 4 years is ₹ 1050. Find the principal amount.

**C)** Factorise.

$$3abc + 24a^2bd$$

**D)** The sides of a triangle are 0.7 cm, 2.4 cm, 2.5 cm. From the above information find out whether the triangle is a right angled triangle or not.

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**E)** The top of a ladder of length 17 m reaches a window 8 m above the ground. What is the distance between the base of the wall and that of the ladder ?

**Q. 5 A)** Find the value using identity.

$$48 \times 52$$



**B)** Complete the following frequency distribution table.

<b>No.</b>	<b>Tally mark</b>	<b>Frequency</b>
1	I	06
2		08
3		
4		00
5		13
	<b>Total Frequency</b>	N = 30

**C)** The radius of a circular dodgeball ground is 3.5 m. If 11 girls are made to stand on the circumference of this ground keeping equal distance from each other, then find the distance between 2 girls.

**D)** If the side of a square is increased 3 times, how many times will its area increase than the original area ?

E) Observe the entries made in the page of a passbook shown below :

ओळ क्र. पंक्ति क्र. LINE NO.	तारीख दिनांक DATE	तपशील ब्यौरा PARTICULARS	चेक क्रमांक चेक क्रमांक CHEQUE NO.	रक्कम काढली निकाली गई रकम AMOUNT WITHDRAWN	रक्कम ठेवली जमा की गई रकम AMOUNT DEPOSITED	शिल्लक बाकी जमा BALANCE
1.	2.2.2016	cash			1500.00	7000.00
2.	8.2.2016	cheque	232069		5000.00	12000.00
3.	12.2.2016	cheque	243965	3000.00		9000.00
4.	15.2.2016	cash		1500.00		7500.00
5.	26.2.2016	interest			135.00	7635.00

- On 2.2.2016 the amount deposited was  rupees and the balance  rupees.
- On 12.2.2016  rupees were withdrawn by Cheque No. 243965. The balance was  rupees.

