

ANDHRA EDUCATION SOCIETY SCHOOLS  
NEW DELHI  
MID TERM EXAMINATION (2017-18)  
CLASS - VII  
SUBJECT - MATHS



Time : 2:30 Hrs.

Max Marks : 80

OBJECTIVE

20 Marks

I. Fill in the Blanks.

5x1=5M

1. If two angles are supplementary, then the sum of their measure is \_\_\_\_\_
2. A line segment has \_\_\_\_\_ end points.
3. Range = \_\_\_\_\_
4. A triangle has \_\_\_\_\_ altitudes.
5. The total measure of the three angles of a triangle is \_\_\_\_\_



II. CHOSE THE CORRECT ANSWER.

10x1=10M

1. A line that intersects two or more lines at distinct points is called \_\_\_\_\_  
a. Transversal      b. Median      c. Parallel lines
2. Which of the pair of angles are complementary.  
a.  $65^\circ, 115^\circ$       b.  $30^\circ, 90^\circ$       c.  $50^\circ, 40^\circ$
3. Find the product  $(-75) \times 2 \times 6 =$  \_\_\_\_\_  
a. 900      b. -900      c. 850
4.  $(-8) + (-4)$  {      }  $(-8) - (-4)$ .  
a.  $>$       b.  $<$       c.  $=$
5. Find  $1/5$  of 25.  
a. 4      b. 5      c. 8
6. Find  $3/5 + 1/2$ .  
a.  $1/5$       b.  $3/10$       c.  $6/5$

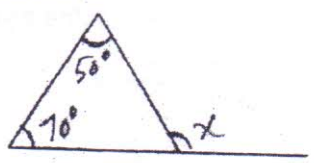
$$\frac{3}{5} \times \frac{2}{1}$$

7. Write equation for the statement given.  
 Ten times a is 70 =  $10a = 70$   
 a.  $70a$       b.  $70/a$       c.  $70+a$

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8. Solve:  $3p/4=6$ .  
 a. 7      b. 8      c. 9.

9. Find the value of X.



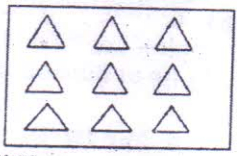
a.  $110^\circ$       b.  $120^\circ$       c.  $130^\circ$

10. Which is the longest side of a right triangle.  
 a. hypotenuse      b. base      c. altitude

III. Solve

5x1=5M

1.  $(-30)/(10)=$
2. Write down a pair of integers whose sum is -7.
3. Find:  $3 \frac{1}{4} \times 6=$
4. Shade  $2/3$  of the triangles in the given box.



5. Solve for m:  $4(m+3)=18$

SUBJECTIVE:

55Marks  
 $10 \times 2 = 20M$

1. Solve the following
  1. Find the median of the data.  
 13, 16, 12, 14, 19, 12, 14, 13, 14
  2. Evaluate:  $13 / \{ (-2) + 1 \}$
  3. Write a negative integer and a positive integer whose sum is -5.
  4. There are 6 marbles in a box with numbers from 1 to 6 marked on each of them

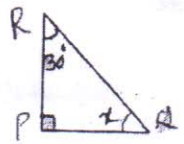
- a. what is the probability of drawing a marble with number 2?
- b. What is the probability of drawing a marble with number 5?

5. A two wheeler covers a distance of 55.3km in one litre of petrol. How much distance will it cover in 10 litres of petrol.

6. Lipika reads a book for  $1\frac{3}{4}$  hours everyday. She read the entire book in 6 days. How many hours in all were required by her to read the book.

7. Solve:  $5m+7=17$

8. Find the value of x.



9. Is it possible to have a triangle with the following sides: 2cm, 3cm, 5cm.

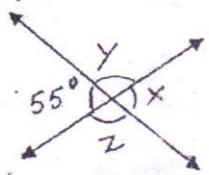
10. Find the value of x, y.



II. SOLVE ANY 8 OF THE FOLLOWING.

8X3=24M

1. Find the value of x,y,z.



2. Identify which of the following pairs of angles are complementary and supplementary.

- a.  $65^\circ, 115^\circ$
- b.  $30^\circ, 60^\circ$
- c.  $130^\circ, 50^\circ$

3. The temperature at 12 noon was  $10^\circ\text{C}$  above zero. If it decreases at the rate of  $2^\circ\text{C}$  per hour until midnight. At what time would the temperature be  $8^\circ\text{C}$  below zero? What would be the temperature at midnight?

4. The scores in mathematics test (out of 25) of 15 students is as follows. 19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20. Find the mode and median of this data. Are they same?

5. The heights of 10 girls were measured in cm and the results are as follows. 135, 150, 139, 128, 151, 132, 146, 149, 143, 141.  
A) What is the range of the data? B) What is the mean height of the girls? C) How many girls have heights more than the mean height.

6. Find:  $1. 2/5 + 1/2$

2.  $2 \frac{1}{2} + 1 \frac{1}{5}$

7. Express in kg. A) 3456g

b) 4kg 8g

8. Write the following in statement form:

a.  $p+4=15$

b.  $4s-2=18$

9. Set up equations and solve to find the unknown number.

Munna subtracts thrice the number of notebooks he has from 50, he finds the result to be 8.

10. PQR is a triangle, right - angled at P. If  $PQ=10\text{cm}$  and  $PR=24\text{cm}$ , find QR.

III. SOLVE ANY 4 OF THE FOLLOWING:

$4 \times 4 = 16M$

1. Find the product, using suitable properties.

a.  $26 \times (-48) + (-48) \times (-36)$

b.  $625 \times (-35) + (-625) \times 65$

2. Find.

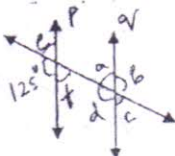
a.  $7.75 \div 0.25$

b.  $101.01 \times 1.01$

3. Solve: a.  $2(x+4) = 12$

b.  $2y + 5/2 = 37/2$

4. In the adjoining figure, PIIQ. Find the unknown angles.



5. Find the perimeter of the rectangle whose length is 40cm and a diagonal is 41cm.

6. The performance of a student in 1st term and 2<sup>nd</sup> term is given below. Draw a double bar graph. Choosing appropriate scale and answer the following.

SUBJECT	English	Hindi	Maths	Science	S.Science
1 <sup>st</sup> term (M.M=100)	67	72	88	81	73
2 <sup>nd</sup> term (M.M=100)	70	65	95	85	75

- a. In which subject, has the child improved his performance most?
- b. In which subject is the improvement the least?