



## MATHS

### BOOKS - UNIQUE MATHS (HINGLISH)

#### COVERAGE STANDARD QUESTION

#### 1 Mark Questions

1. Write the properties of congruent segments.

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2. Co-ordinate of A is at 5 unit and if co-ordinate of B is -6 unit then find distance between AB.

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3. Write the following statement 'If-then' form The diagonals of rectangle are congruent.

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4. Point M is midpoint of seg AB. If  $AB = 9$  cm then find the length of AM.

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5. How many circles can be drawn through " two points " ?

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6. Point D is midpoint of seg VJ. If VJ is 8.2 cm, find DV.

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7. There are 3 segments. seg AB, seg CD, seg EF. All 3 segments obey transitivity property. If  $AB = 5$  cm, then find value of CD and EF.

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8. If S-B-Hand  $d(S,B) = 5$  cm,  $d(B, H) = 8$  cm. Then find  $d(S, H) = ?$

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9. Which figure is formed by three non-collinear points ?

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10. If  $SP = 6$  cm,  $SJ = 3$  cm and  $RV = 4.4$  cm. Compare the segments.

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11. Write the converse of, "the alternate angles formed by two parallel lines and their transversal are congruent."

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12. Write the converse of, "if the corresponding angles formed by a transversal of two lines are congruent, then two lines are parallel."

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13. Coordinate of point P on a number line is 5. What are the co-ordinates of points on the number line which are a distance of 8 units from P?

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14. Write the following statements in conditional form, "every rectangle is a parallelogram."





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15. Write the following statements in conditional form, "chords, which are equidistant from the centers of congruent circles, are congruent."



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16.  $d(A, B) = 5\text{cm}$ ,  $d(B, C) = 11\text{ cm}$ ,  $d(A, C) = 6\text{ cm}$  which of the points is between the other two?



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17. How many mid points does the segment have?



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**18.** Write converse of the following statement: If a pair of the interior angles made by a transversal of two lines are supplementary then the lines are parallel.



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**19.** Write in conditional form:

- (i) Every rhombus is a square.
- (ii) Interior angles are supplementary to each other.



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**20.** On the number line, points A, B,C are such that  $d(A, C) = 10$ ,  $d(C, B) = 8$ , find the  $d(A,B)$  considering all possibilities.



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21. If A -B-C and  $l(AC)=11, l(BC)=6.5$  then find  $l(AB)$ .



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22. Draw a number line and denote the following points on number line

-3,5,7,-6



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23. From the information given below find which of the point is between the other two. If the points are not colinear, state so,

$d(DE) = 5, d(EF) = 8, d(DF) = 6$

$d(PR) = 7, d(PQ) = 10, d(QR) = 3$



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24. Point M, N, O are co-linear such that  $d(M, N) = 10$ ,  $d(N, O) = 18$ . Find  $d(M, O) = ?$

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25. When given two lines are parallel. If one angle of two interior angle is  $70^\circ$  then find the measure of second interior angle.

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26. In  $\triangle ABC$ ,  $\angle A = 76^\circ$ ,  $\angle B = 48^\circ$ , then find  $\angle C = ?$

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27. If two lines are not intersect each other then the lines are.....

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28. The sum of the two angles of the triangle is  $90^\circ$  then find the third angle?



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29. Two parallel lines are intersected by a transverse. If measure of one of the alternate angle is  $85^\circ$ . Find measure of other angle.



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30. In  $\triangle PQR$ ,  $\angle P = 76^\circ$ ,  $\angle Q = 48^\circ$ ,  $\angle R = ?$



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31.  $\angle XYZ$  and  $\angle PQR$  are a complementary of each other then find  $\angle XYZ + \angle PQR = ?$



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32. In  $\triangle PQR$ ,  $PQ = 10\text{cm}$ ,  $PR = 5\text{cm}$ ,  $QR = 12\text{cm}$ . Find out the greatest and the smallest angle of triangle.



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33. The perimeter of two similar triangles are 24cm and 16cm, respectively. If one side of the first triangle is 10cm, then the corresponding side of the second triangle is



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34.  $\triangle PQR$ ,  $PQ = 12\text{cm}$ ,  $QR = 14\text{cm}$ ,  $PR = 8\text{cm}$ . Find out the greatest and the smallest angle of the triangle.



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35.  $\triangle SUN$ ,  $\angle S = 85^\circ$ ,  $\angle U = 45^\circ$  greatest and the smallest side of the triangle.

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36. Which of the following is not the test of congruence of two triangles ?  
ASA test ,AAS test, SSA test , SAS test.

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37.  $\triangle XYZ \sim \triangle LMN$ . Write the corresponding angles of the triangles and also write the ratio of the corresponding sides.

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38.  $\triangle ABC \sim \triangle PQR$ , if  $AB=4\text{cm}$ ,  $BC=6\text{cm}$ ,  $AC=5\text{cm}$ , and  $PQ=8\text{cm}$ , then find the length of remaining side.

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39. Draw perpendicular bisector to line segment AB if  $l(AB) = 7\text{cm}$ .

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40. Draw line segment PQ with the length 9cm.

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41. Draw seg 8.7cm and bisect it.

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42.  $\square ABCD$  is a rectangle . If  $AC = 6\text{ cm}$ , then find BD.

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43. State the type of quadrilaterals. Name them.



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44. Write the any two properties of square.



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45. Draw a trapezium and state the pair of parallel side



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46.  $PQRS$  is parallelogram.  $\angle Q$  is  $70^\circ$ , then find  $\angle S$ .



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47. If one side of rhombus is 8.5 cm. Find perimeter of rhombus.





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48. In  $\square IJKL$ , side  $IJ \parallel$  side  $KL$ ,  $\angle I = 108^\circ$ ,  $\angle K = 53^\circ$ . Find measure of  $\angle J$ ,  $\angle L$



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49. The adjacent sides of a rectangle are 7 cm and 24 cm . Find the length of its diagonal.



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50. The diagonals are perpendicular to each other. ' In which of the following quadrilaterals is the following property observed ?

Rectangles, Rhombus , Kite, Isosceles trapezium .



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51. Perimeter of a square is 64 cm. Find the measure of its side.



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52. If the length of the diagonal of a square is  $12\sqrt{2}cm$ , then its perimeter is



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53. If the diagonal of a square is 13 cm ,then find the length of its side .



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54. The adjacent sides of a rectangle are 7 cm and 24 cm . Find the length of its diagonal.



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55. State the type of circle which touches all the sides of a triangle and the circle passing through all the vertices of a triangle.



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56. The circle having the same center but with different radii is known as.



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57. If radius of a circle is 7 cm. Then find the diameter of a circle.



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58. Draw three concentric circles with different radii.



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59. How many chords we can draw a circle?

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60. If radius of circle is 4.8 cm. Find length of biggest chord.

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61. Two circles are intersect externally if radius of one circle is 3.5 cm and other is 6.5 cm find the distance between their centres.

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62. Radius of circle is 10 cm. There are two chords of length 16 cm each. What will be the distance of these chords from the center of circle.

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63. Draw the tangent, if two circle intersecting in two points.

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64. Radius of a circle with centre O is 4 cm. if  $\angle(OP) = 4.2$  cm then state where point P will lie with respect to the circle.

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65. Radius of a circle with centre O is 4 cm. if  $\angle(OP) = 4.2$  cm then state where point P will lie with respect to the circle.

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66. If the radius of the circumcircle of an equilateral triangle is 5 cm then find the radius of its in circle.

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67. If the length of the longest chord of a circle is 22 cm. Find the radius of a circle.



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68. The radius of the circle with the centre O is 2.3 cm and if the OQ = 3.2 cm then where is the point Q lies?



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69. The length of a chord of a circle is 16 cm and distance of chord is 15 cm from the center of the circle then find the radius of the circle.



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70. Fill in the blanks :  $\tan 30^\circ \times \tan \_ \_ \_ \_ \_ = 1$



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71. If  $\tan \theta = 1$  then  $\tan(90 - \theta) = ?$

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72.  $\frac{\cos 28^\circ}{\sin 62^\circ} = ?$

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73. If  $\sin 40^\circ = \cos A$  then find A.

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74. If  $\theta = 30^\circ$ , then  $\sin^2 \theta = ?$

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75.  $\cos 45^\circ - \sin 45^\circ = ?$



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76. Write the value of  $\sin 30 = \square$ ,  $\cos 60 = \square$



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77. If  $\sin \theta = \frac{4}{5}$ ,  $\cos \theta = ?$



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78.  $\sin \theta = \cos \square$



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79. Fill the box  $\tan \theta \times \tan(90 - \theta) = \square$



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80. Find  $5 \sin 30^\circ + 3 \tan 45^\circ$

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81. Show that  $\tan \theta \times \tan(90 - \theta) = 1$

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82.

In

$\triangle PQR$ ,  $m\angle P = 60^\circ$ ,  $m\angle R = 30^\circ$ ,  $PR = 2a$ ,  $PQ = a$ ,  $QR = ?$

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83. Which of the following statement is true?

(A)  $\sin \theta = \cos(90 - \theta)$

(B)  $\cos \theta = \tan(90 - \theta)$

(C)  $\sin \theta = \tan(90 - \theta)$

(D)  $\tan \theta = \tan(90 - \theta)$

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84.  $\cos 45^\circ = \frac{1}{\sqrt{2}}$  and  $\sin 30^\circ = \frac{1}{2}$ . Find the value of  $\cos^2 45^\circ + \sin^2 30^\circ$ .

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85. If x-co-ordinate of point A is negative and y-co-ordinate is positive. Then which quadrant point A lie?

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86. If the point is on x-axis then what is its y-co-ordinate.

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87. If line 'l' is parallel to y-axis then what is the equation of line 'l'.

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88. State which quadrant or on which axis do the point lie. A(-3,2) P(0,2)

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89. In which quadrant are the following points. Whose x-co-ordinate is positive and y co- ordinate is negative. Both co-ordinates are negative.

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90. Write equation of line parallel to y-axis and at a distance 7 units from it to its left.

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91. What is the co-ordinate of origin?



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92. Write down the equation of a line parallel to y-axis passing through co-ordinate 3.



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93. Write down the equation of line passing through origin.



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94. If the equation of line is  $x = -5$  then that line parallel to which axis?



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95. In which quadrant does the point  $(-4,-3)$  lies.



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96. The equation of the x-axis is



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97. Find the surface area of sphere if radius is 9cm?



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98. {i} Find the curved surface area of cone if its base radius is 12 cm and slant height = 7 cm.

{ii} Find the surface area of the sphere if radius is 14 cm.



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99. If  $l \times b \times h = 20 \times 12 \times 10$ , then find the volume of cuboid.

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100. If the length of the cube is 6 cm. Then find the total surface area of a cube.

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101. The length, breadth and height of a cuboidal shaped box of medicine is 20 cm, 12 cm and 10 cm respectively. Find the total surface area of the box.

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102. Write the formula to find out the surface area of a solid hemisphere.

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**103.** What is volume of sphere whose radius is 4 cm. ( $\pi = 3.14$ )

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**104.** Write the formula to find volume of cuboid.

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**105.** Side of the cube is 4 cm. Find the surface area of all vertical faces and total surface area of the cube. Volume of cube is  $1000 \text{ cm}^3$ . Find its side.

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**106.** If radius of cone is 7 cm. Find area of base of cone.

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107. In cone  $h=12\text{cm}$ ,  $l=13\text{cm}$ ,  $r=?$



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108. If curved surface area of a cone  $18753.6\text{cm}^3$  and slant height 20 cm  
the find radius of base?



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109. If radius is  $r$  and height is  $h$ , then find curved surface area of cylinder.



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110. What is the total surface area of hemisphere if the radius of  
hemisphere is  $r$ .



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111. What will be the volume of a cube having length of the edge 7.5 cm?



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112. The total surface area of a cube is  $864\text{cm}^2$ . Find the volume?



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## 2 Mark Questions

1. The sum of measure of all angle of a triangle is  $180^\circ$ . Draw the labelled figure of this theorem and also write given and to prove.



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2.

In

$\triangle LMN$ ,  $\angle L = 30^\circ$ ,  $\angle M = 90^\circ$ ,  $\angle N = 60^\circ$  and  $LN = 18$ , then find  $L$



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3. Angles of triangle are in the ratio of 2:3:4 then find the measure of all angles.

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4.  $\triangle XYZ \sim \triangle LMN$ . Write the corresponding angles of the triangles and also write the ratio of the corresponding sides.

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5. In  $\triangle PQR$ ,  $\angle Q = 90^\circ$ ,  $PQ=12\text{cm}$ ,  $QR=5\text{cm}$  and  $QS$  is a median, find  $l(QS)$ .

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6. The measure of triangle are  $x^\circ$ ,  $(x + 10)^\circ$ ,  $(2x + 10)^\circ$ . Find the measure of each angle.

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7. Prove that an equilateral triangle is equiangular.

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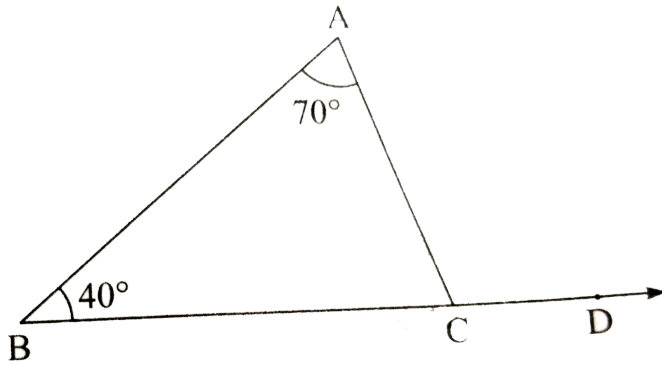
8. Show that in a right angled triangle, the hypotenuse is the longest side.

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9.  $\triangle PQR$ ,  $\angle Q = 90^\circ$ ,  $PQ = 12$ ,  $QR = 5$ ,  $QS$  is a medium find  $l(QS)$ .

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10.

In the figure ,  $\angle ACD$  is an exterior angle of  $\triangle ABC$ ,  $\angle A = 70^\circ$ ,  $\angle B = 40^\circ$  . Find measure of  $\angle ACD$  .

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11. Construct triangle ABC with sides  $AB=5\text{cm}$ ,  $BC=9\text{cm}$ , and  $AC=6\text{cm}$ .

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12. Construct an equilateral triangle, if one side is 10 cm.

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13. If opposite angles of a rhombus are  $3x^\circ$  and  $(4x - 20)^\circ$  then find the value of  $x$ .



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14. ABCD is parallelogram if  $\angle A = (4x + 13)^\circ$ ,  $\angle D = (5x - 22)^\circ$ , then find  $\angle B$ ,  $\angle C$ .



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15. Two adjacent sides of a parallelogram is 150cm. One of its sides is greater than the other by 25cm. Find the length of the sides of the parallelogram.



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16. Diagonal of rhombus are 6 cm and 8 cm respectively, then find sides of rhombus.



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17. The angles of quadrilateral are in the ratio 3:5:9:13. Find the measure of all angles of quadrilateral.



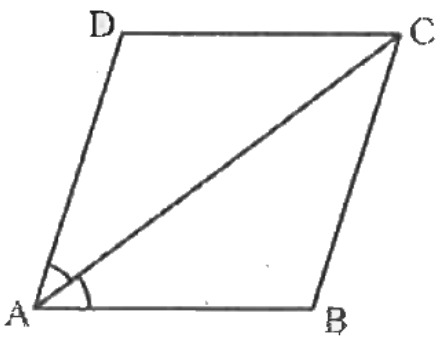
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18. If the diagonals of a parallelogram are equal, then show that it is a rectangle



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19. Diagonal AC of a parallelogram ABCD bisects A. Show that it bisects C also



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20. Diagonals of a parallelogram intersect each other at point Q. If  $AQ = 5$ ,  $BQ = 12$  and  $AB = 13$ , then show that ABCD is a rhombus.

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21. The ratio of measure of two adjacent angle of parallelogram is 1:2. Find the measure of all angles of the parallelogram.

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22. The ratio of two adjacent side of parallelogram is 3:4 and its perimeter is 112 cm find the length of its each side.

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23. The diagonals of rhombus are 20 and 48 cm. Find the length of side.

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24. Find area of circle whose diameter is 14cm.

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25. Radius of circle is 34 cm. And distance of chord from centre is 24 cm.  
Find length of the chord?

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26. Recall that two circles are congruent if they have the same radii. Prove that equal chords of congruent circles subtend equal angles at their centres.

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27. Prove that if chords of congruent circles subtend equal angles at their centres, then the chords are equal.

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28.  $\frac{\cot 60^\circ}{\sin 60^\circ + \cos 60^\circ}$  find the value

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29.  $\cos \theta = \frac{8}{10}$ , then find  $\sin \theta$ .

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30. Find the value of,  $2\tan 45^\circ + \cos 30^\circ - \sin 60^\circ$ .

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31.  $\frac{\tan 60^\circ}{\sin 60^\circ + \cos 60^\circ} = ?$  find the value .

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32. If  $\sin \theta = \frac{15}{17}$ ,  $\cos \theta = ?$

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33.  $\frac{\cos 28^\circ}{\sin 62^\circ} = ?$

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34. In right angled triangle XYZ if  $\angle Z = \theta$ ,  $\angle Y = 90^\circ$ ,  $\cos \theta = \frac{24}{25}$ , Find  $\sin \theta$  and  $\tan \theta$

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35. If  $\tan \theta = \frac{1}{2\sqrt{2}}$  then find  $\sin \theta$  and  $\cos \theta$ .

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36. 
$$\frac{\cos 60^\circ \times \cos 30^\circ + \sin 60^\circ \times \sin 30^\circ}{2\sin 30^\circ \times \cos 0^\circ + \sin 90^\circ} = ?$$

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37. Find the value of,  $5\sin 30^\circ + 3\tan 45^\circ$ ,

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38. Find the value of  $\frac{\cos 56^\circ}{\sin 34^\circ}$ .

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39. If  $\tan \theta = \frac{12}{5}$ , then  $5 \sin \theta - 12 \cos \theta = ?$

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40. Draw the co-ordinate system on a plane and plot the following points? L(-2,4), Q(6, -5)

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41. In which quadrant are the following points. A(3,5), B(-2, -7)

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**42.** Write the equation of the line parallel to the y-axis at a distance of 7 units from it to its left.

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**43.** The point  $Q(3, -2)$ , lie on a line parallel to the y-axis, Write the equation of the line and draw its graph.

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**44.** How many lines are there which are parallel to the x-axis and having a distance 5 units ? Write their equations.

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**45.** Draw the co-ordinate system on a plane and plot the following points.

(i)  $A(-2,4)$  (ii)  $B(6,-5)$

(iii) C(0,-2) (iv) D(-3,-4)



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46. Complete the table for drawing the graph.  $2x-y=1$



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47. Which of equation given below has graph parallel to x-axis and which one have graph parallel to y-axis.

(i)  $x=3$ , (ii)  $y-2=0$

(iii)  $x+6=0$  (iv)  $y=-5$



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48. Draw the graph of equation,  $x+y=0$



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49. Without plotting points on graph state in which quadrant or on which axis do the following point lie, (0, -3), (4, -5), (5, 6), (-7,8)



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50. How many lines are there which are parallel to the x-axis and having a distance 5 units ? Write their equations.



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51. Prepare a table to draw graph of given equation  $2x - y + 1 = 0$



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52. What is the name of horizontal and the vertical lines drawn to determine the position of any point in the cartesian plane.



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53. On graph paper plot the point A(3, 0), B(3, 3), C(0, 3). Join A, B and C what is the figure formed?



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54. In which quadrant are the following

(i) Whose both co-ordinates are positive.

(ii) Whose both co-ordinates are negative.



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55. Which of the equation given below have graph parallel to the x-axis and which one have graphs parallel to the y-axis?

(i)  $x = -6$ , (ii)  $y - 4 = 0$ , (iii)  $y = 6$



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56. Find the surface area of a sphere having radius '7'.  $\left(\pi = \frac{22}{7}\right)$



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57. If the radius of a solid hemisphere is 5 cm. Then find its curved surface area.  $(\pi = 3.14)$



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58. Find the volume of a sphere, if its surface area is 154.59 sq. cm.



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59. If area of base of cone is 1386 sq. cm. Find its radius.



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60. Curved surface area of cylinder is  $1980\text{cm}^2$  and radius of its base is 15 cm. Find the height of the cylinder.  $\left(\pi = \frac{22}{7}\right)$

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61. Find the volume of cone if its total surface area is 7128 sq. cm and radius of base is 28 cm.

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62. Total surface area of cube is 5400 sq. cm. Find surface area of all vertical faces of the cube.

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63. Volume of hemisphere is  $18000\pi\text{cm}^3$ . Find its diameter.

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64. Find the volume of a sphere whose surface area is  $154\text{cm}^2$

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65. Find the volume of a sphere if its surface area is  $15459\text{cm}^2$  ? .

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66. Find the volume of a cone if its total surface area is  $7128\text{ cm}^2$ ? and radius of base is  $28\text{cm}$   $\left(\pi = \frac{22}{7}\right)$

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67. What will be the volume of a cube having length of edge  $7.5\text{ cm}$ ?

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68. Find the surface area of circular sphere having radius 7 cm.

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69. Find volume of a sphere whose surface area is  $314.59\text{cm}^2$ ? ( $\pi = 3.14$ )

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70.  $l = 13$  cm,  $h = 12$  cm, find the radius of the cone?

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71. The volume of a cylinder is  $200\text{ cm}^3$ . Its height is 10 cm. Find the area of its base.

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72. Find the volume of hemisphere with diameter 6 cm . ( $\pi = 3.14$ )



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73. If  $r = 6$ ,  $l = 8$  cm then find the total surface area of the cone?



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