

MATHS

BOOKS - CBSE COMPLEMENTARY MATERIAL MATHS (HINGLISH)

PRACTICE QUESTION PAPER-2

Part A

1. Which the following is the formula for the volume of the sphere?

A.
$$\frac{1}{3}\pi r^3$$

B.
$$\frac{2}{3}\pi r^3$$

C.
$$\pi r^3$$

D.
$$\frac{4}{3}\pi r^3$$

Answer: D



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2. If x=0 and y=k are the solution of the equation 5x-3y=3, the value of k is:

$$A. \ \frac{3}{2}$$

D.
$$\frac{-2}{3}$$

Answer: C



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3. The class mark of the class 100-120 is

A. 100

B. 110

C. 120

D. 20

Answer: B



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4. How many triangle are possible having angle 60° , 90° and 30°

A. only one

B. None

C. Infinite

D. only 3

Answer: C



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5. Which of the following is true if

 $\triangle PQR \cong \triangle SET$?

A. PQ=SE

B. QR+ST

$$\mathsf{C}. \angle P = \angle T$$

D. PR=SE

Answer: A



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6. Which of the follwing is rational number?

A. 0.123456.....

B. $\sqrt{23}$

C.
$$\sqrt{36}$$

D.
$$2\sqrt{3}$$

Answer: C



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7. The base and height of a parallelogram are 10cm and 6cm respectively. The area of parallelogram is:

A. $30cm^2$

B. $60cm^2$

 $\mathsf{C.}\ 16cm^2$

D. $8cm^2$

Answer: B



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8. The probabillity of getting a factor of 6 on throwing a dice is:

A. $\frac{2}{3}$

- B. $\frac{1}{3}$
- $\mathsf{C.}\;\frac{1}{6}$
- D. $\frac{3}{2}$

Answer: A



- **9.** The angle in a semicircle measures
 - A. 120°
 - B. 60°

C. 180°

D. 90°

Answer: D



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10. Which quadrant has both ordinate and abscissa negative?

A. I

B. II

C. III

D. IV

Answer: C



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11. Find the value of C if in a triangle S=13,a=8, and b=7.



12. Find the decimal expansion of $\frac{31}{16}$.



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13. If (x-1) is a factor of the polynomial $2x^2-2a$ then find the value of a .



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14. If the median of 6,4,7,13 and p is 8 then find the value of p

Part B

1. Find any two solutions of the equation 4x +

3y = 12



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2. If each sides of a triangle is doubled then find the ratio of the area of the new triangle

thus formed and the given triangle.



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3. The volume of a right circular cone is 9856 cm^3 . If the diameter of the base is 28cm, find: (i) height of the cone (ii) slant height of the cone (iii) curved surface area of the cone.





5. Factorise $(p-q)^3 + (q-r)^3 + (r-p)^3$.



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6. If p(x) = x+5 then find the value of p(x) + P(-x)



7. The side of cube is 8cm. Find the lateral surface area of the cube.



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8. A dice is thrown 80 times. If the probability of having an even number is 7/10 then how many times an odd number appears on dice?



1. The cost of four chairs and five tables is 3200. Write a linear equation in two variables for this statement and find out its two solutions.



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2. Solve for X: (5x+1)(x+3) - 8 = 5(x+1)(x+2)

A. 12

B. 13

C. 14

D. 15

Answer: x=15



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3. The sides of a triangle are in the ration 11:19:24 and its perimeter is 540cm. Find the area of the triangle.



4. The side of a triangle shaped sheet are 5cm, 12cm and 13cm. Find the cost of painting on the sheet at the rate of Rs 30 per cm sq.



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5. Divide the polynomial $9x^3-3x^2+15x-3$ by (3x-1) and find its quotient and remainder.



6. Prove that the angle opposite to the equal sides of an equilateral triangle are equal.



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7. In a rhombus ABCD, \angle ABC = 72° . Find \angle ACD



1. The angle subtended by an arc of a circle at the centre is double the angle subtended by it any point on the remaining part of the circle.



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2. Find the mean, median and mode for the following distribution. 75, 62, 88, 55, 90, 95, 85, 59, 72, 78, 90, 95, 90, 95, 80, 71, 44, 57, 68, 90.



3. In \triangle ABC (see the fig.); $DE \mid \ | \ BC$, find the value of x.



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4. The inner diameter of a cylindrical wooden pipe is 24 cm and its outer diameter is 28 cm. The length of the pipe is 35 cm. Find the mass of the pipe, if 1 cm3 of wood has a mass of 0.6 g.



5. Simplify:
$$\frac{\left(361\right)^3+\left(139\right)^3}{\left(361\right)^2-\left(361\times139\right)+\left(139\right)^2}$$



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6. Express 0.245 in the form $\frac{p}{q}$



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7. if x+a is a factor of the polynomials x^2+px+q and x^2+mx+n prove that

