

MATHS

BOOKS - KUMAR PRAKASHAN KENDRA MATHS (GUJRATI ENGLISH)

QUESTION PAPER 3 : FOR THE ANNUAL EXAMINATION



1. $\sqrt{2} + \sqrt{2}$ is a rational number.

2. The mean of first four even numbers is 5

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3. A plane has three dimensions.
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4. In the Cartesian plane, the axes divide the plane into two parts.

5. For the polynomial p (x), if p (-2) = 0, then is a factor of p (x).

A. 2x-1

B. 2x+1

C. x-2

D. x+2

Answer: D



6. A card is drawn at random from a well shuffled pack of cards . The probability of that card being a king is

A.
$$\frac{1}{52}$$

B. $\frac{1}{26}$
C. $\frac{1}{13}$
D. $\frac{3}{13}$

.....

Answer: A::C



7. The median of 21, 17, 13, 33, 19, 23 is.....

A. 19

B. 20

C. 21

D. 23

Answer: B



8. The sides of a triangle m easure 8 cm, 12 cm and 6 cm. Then, the sem iperim eter of the triangle iscm.

A. 12

B. 13

C. 14

D. 26

Answer: A::C



9. The form of $0.\ \bar{6}$ is



12. The point corresponding to ordered pair (5, - 3) lies

in the quadrant

13. The line joining A (-2, 5) and B (3, 5) intersects which axis ?



14. If x = 2, y = 3, u = -2 and v = -3, in which quadrant

does the point (x + y, u + v) lie ?



16. Into how m any chapters did Euclid divide his compilation 'Elements' ?

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1. Find the surface area of a sphere of radius 7 cm.







Then, $\angle A =$



10. Find the value of k, if x = 2, y = 1 is a solution of the

equation 2x + 3y = k. Find two more solutions of the

resultant equation.



11. The angles of a quadrilateral are in the ratio3:5:9:13. Find all the angles of quadrilateral.



that AC = BC, then prove that $AC = rac{1}{2}AB$. Explain by

drawing the figure.

1. The paint in a certain container is sufficient to paint an area equal to 9.375 m^2 . How many bricks of dimensions 22.5 cm \times 10 cm \times 7.5 cm can be painted out of this container ?

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2. A joker's cap is in the form of a right circular cone of base radius 7 cm and height 24 cm. Find the area of the sheet required to make 10 such caps.



3. The diameter of a roller is 84 cm and its length is 120 cm. It takes 500 complete revolutions to move once over to level a playground. Find the area of the playground in m^2 .

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4. Two coins are tossed simultaneously. Find the probability of getting (1) one head, (2) two heads, (3) at least one head and (4) no head

5. The following number of goals were scored by a team in a series of 10 matches : 2, 3, 4, 5, 0, 1, 3, 3, 4, 3 Find the mean, median and mode of these scores.

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6. The perimeter of a triangle is 32 cm and two of its sides measure 8 cm and 11 cm. Find the area of the triangle.

7. In the given figure, $\angle PQR = \angle PRQ$, then prove

that $\angle PQS = \angle PRT$.





8. Prove that two triangles on the same base and

between the same parallels are equal in area.

9. In the given figure, if $AB \mid \ \mid CD, \angle APQ = 50^{\circ}$

and $\angle PRD = 127^{\circ}$, find x and y.







1. Prove that the angles opposite to equal sides of an

isosceles triangle are equal.



2. If a line is drawn through the centre of a circle to bisect a chord, then prove that it is perpendicular to the chord.

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3. If each pair of opposite sides of a quadrilateral is

equal, then prove that it is a parallelogram.





5. What are the possible polynomial expressions for the dimensions of the cuboids whose volumes are given below ? (i) $3x^2 - 12x$

(ii) $12y^2 + 8y - 20$.



