

India's Number 1 Education App

MATHS

BOOKS - KUMAR PRAKASHAN KENDRA MATHS (GUJRATI ENGLISH)

QUESTION PAPER 2: FOR THE SECOND TEST

Section A Answere The Following Objetive Questions As Directed State whether each of the following statements is true or false :
A point has one dimension.



2. Which of the following statements is false ?



3. Answer each question by selecting the proper alternative from those given below each question so as to make each statement true :

The opposite angles of a parallelogram are

A. equal

.

B. unequal

C. reflex angles

D. straight angles

Answer: A



4. Answer each question by selecting the proper alternative from those given below each question so as to make each statement true :

The area of an equilateral triangle =.....

A.
$$rac{1}{2} imes$$
 base $imes$ altitude
B. $rac{\sqrt{3}}{2} imes (ext{side})^2$

C. $\frac{\sqrt{3}}{4} \times (\text{side})^2$

D. base \times altitude

Answer: B::C::D



5. Fill in the blands so as to make each of the

following statements true :

The longest chord of a circle is its

6. Fill in the blands so as to make each of the

following statements true :

In $\Delta ABC, \angle A = 40^\circ$ and $\angle C = 50^\circ.$ Then

the smallest side of ΔABC is

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7. Fill in the blands so as to make each of the

following statements true :

In parallelogram ABCD, if $\angle A$: $\angle B = 2$: 3, then

 $\angle D =$



8. Answer the following by a number or a word

or a sentence :

Name the region between and arc of a circle

and its corresponding chord.

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9. Answer the following by a number or a word

or a sentence :

Find the value of $64^{\frac{1}{2}}$



10. Answer the following by a number or a

word or a sentence :

What is the sum of opposite angles of a cyclic

quadrilateral ?

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Section B Solve The Following Briefly

1. Is it possible to draw a triangle with sides 9 cm, 7 cm and 17 cm ? Give reason for your answer.



2. Define : (1) Parallelogram (2) Trapezium



3. Find the value of k, if x-1 is a factor of p(x) in

each of the following cases :

$$p(x) = kx^2 - 3x + k$$



4. Evaluate each of the following using suitable identities :

 $(104)^3$

5. The ratio of the angles of a quadrilateral is 1:2:3:4. Find the smallest angle of the quadrilateral.

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6. In the given figure, if $\angle APB = 40^{\circ}$, find $\angle AOB$.



7. Add $2\sqrt{2}+5\sqrt{3}$ and $\sqrt{2}-3\sqrt{2}$

8. Simplify the following expressions :

 $\left(\sqrt{5}+\sqrt{2}\right)^2$

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9. In ΔABC , E and F are the midpoints of

sides AB and AC respectively. If EF=5cm, find BC.

10. In parallelogam ABCD, $AM \perp CD$ and $AN \perp BC$. If AM=8 cm, AB=12 cm and AD=16 cm, find AN.



11. In ΔABC , AD and BE are altitudes. If BC=8,

AC=12 and AD=6, find ar (ABC) and BE.



Section C Solve The Following

1. In the given figure, $\angle PQR = \angle PRQ$, then prove that $\angle PQS = \angle PRT$.



2. Two circles of radii 5 cm and 3 cm intersect at two points and the distance between their

centres is 4 cm. Find the length of the

common chord.



3. In the given figure, A, B, C and D are four points on a circle. AC and BD intersect at a point E such that $\angle BEC = 130^{\circ}$ and $\angle ECD = 20^{\circ}$. Find







4. In the adjacent fig. if QT \perp PR, $\angle TQR = 40^{\circ}$ and $\angle SPR = 30^{\circ}$, find x and y.





Section D Solve The Following

1. Locate $\sqrt{3}$ on number line





2. If two angles and the included side of one triangled are euqal to two angles and the included side of the other triangle, prove that those two triangles are congruent.



3. D is a point on side BC \triangle ABC such that AD =

AC (see figure). Show that AB > AD.



5. Show that each angle of a rectangle is a

right angle.

