MATHS

BOOKS - KUMAR PRAKASHAN KENDRA MATHS (GUJRATI ENGLISH)

BOARD'S SAMPLE QUESTION PAPERS (QUESTION PAPER 1 : FOR THE FIRST TEST)

Section A (Answer the following objective questions as directed)

1. State whether each of the following statements is true or false:

Every whole number is a natural number.

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2. State whether each of the following statements is true or false:

Every whole number is a natural number.

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

The value of $125^{\frac{-1}{3}}$ is ..... .

A. 5

B. $\frac{1}{5}$

C. 25

D. $\frac{1}{25}$

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

For $p(y) = y^2 - y + 4, p(2) =$ ..... .

A. 10

B. 4

C. 2

D. 6

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5. Fill in the blanks so as to make each of the following statements true:

A solid has dimension/s.

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6. Fill in the blanks so as to make each of the following statements true:

The zero of polynormial $p(x) = 3x - 2$ is ..... .

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Section A (Answer the following by a number or a word or a sentence)

1. State the probability of an impossible event.

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2. What can be said if two coplanar lines do not intersect each other?

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3. State the number of lines passing through three distinct non-collinear points.

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Section B (Solve the following briefly)

1. Find any four rational numbers between 3 and 4.

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2. Simplify : $2^{\frac{2}{3}} \times 2^{\frac{1}{5}}$

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3. State the degree of each of the following polynomials :

(1) $5t - \sqrt{7}$

(2) $4 - y^2$

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4. Factorise :

$12x^2 - 7x + 1$

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5. Write the following cubes in expanded form :

$(2x + 1)^3$

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6. State in which quadrant does each of the following points lie :

$(-2, 4), (3, -1), (1, 2), (-3, -5)$

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7. Answer the following :

Name the horizontal line and the vertical line used for describing the position of a point in a plane.

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8. Answer the following :

The four parts of the Cartesian plane made by the axes are known as what?

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9. If $x = 2$ and $y = 1$ is a solution of the equation $2x + 3y = k$, find the value of k.

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10. In a cricket match a batswoman hits a boundary 6 times out of 30 balls she plays . Find the probability that she did not hit a boundary.

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11. A coin is tossed three times. Find the probability of receiving head more times than tail.

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Section C (Solve the following)

1. Represent $\sqrt{5}$ on the number line.

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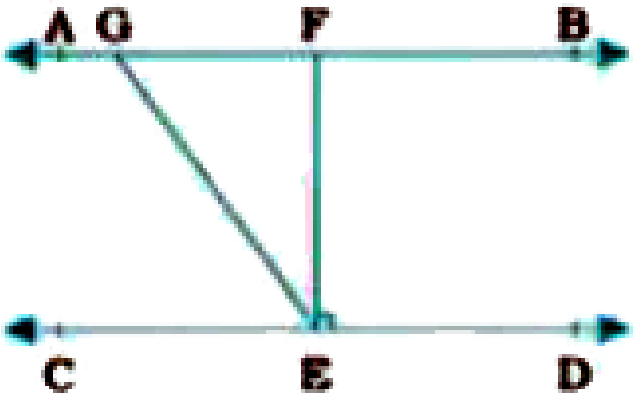
2. In the given figure, if $AB \mid\mid CD, EF \perp CD$ and $\angle GED = 126^\circ$, find $\angle AGR, \angle GEF$ and $\angle FGE$.



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3. If two lines intersect each other, then prove that the vertically opposite angles are equal.

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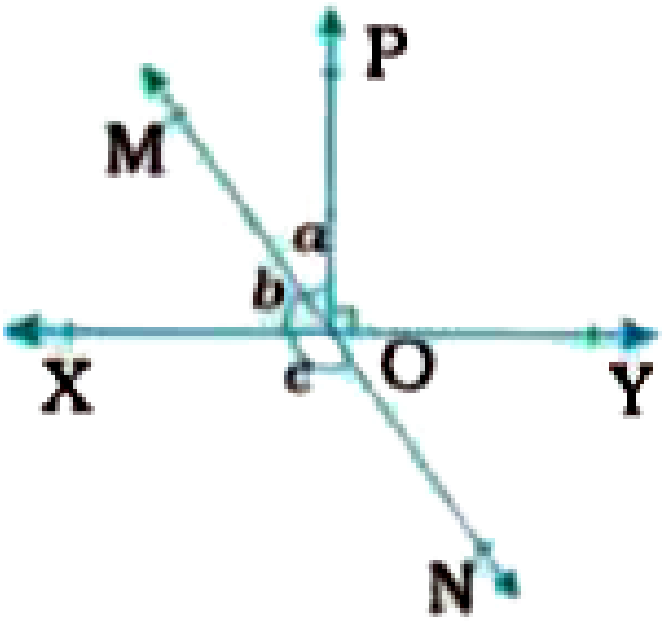
4. In the given figure, lines XY and MN intersect at O. If $\angle POY = 90^\circ$ and $a : b = 2 : 3$, find c.



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Section D (Solve the following)

1. Yamini and Fatima , two students of class IX of a school, together contributed Rs 100 towards the prime Minister's Relief Fund to help the earthquake victims . Write a linear equation which satisfies this

this data. (You may take their contributions as Rs x and Rs y). Draw the graph of the same.

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2. Prove that the lines which are parallel to the same line are parallel to each other.

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3. If a transversal intersects two parallel lines, then prove that each pair of alternate interior angles is equal.

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4. Verify :

$$a^3+b^3+c^3-3abc=\frac{1}{2}(a+b+c)\left[(a-b)^2+(b-c)^2+(c-a)^2\right]$$

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