

GREENLAWNS SCHOOL, WORLI

Terminal Examination: 2024-2025

Mathematics

STD: VI
Date: 01/10/2024

Marks: 80
Time: 2 hours

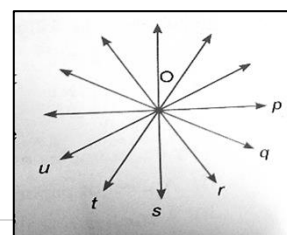
Attempt all the questions

Question 1.

Choose one correct answer to the questions from the given options:

[10]

- a. The difference between the place value and the face value of 8 in 4986031:
(a) 73331 (b) 67999 (c) 79992 (d) 89997
- b. $18 \times (5 - 3) = \underline{\hspace{2cm}} \times 5 - \underline{\hspace{2cm}} \times 3$
(a) 15 (b) 18 (c) 13 (d) 53
- c. The percent 37.5% can be expressed as in decimal fraction.
(a) 0.375 (b) 3.75 (c) 37.5 (d) 375
- d. The line joining a vertex of the triangle with the mid-point of the opposite side is called:
(a) altitude (b) median (c) mean (d) transversal
- e. $14a^9$ divided by $2a^6$ will give:
(a) $4a^6$ (b) $6a^6$ (c) $2a^3$ (d) $7a^3$
- f. The absolute value of -8 will be:
(a) 8 (b) -8 (c) 1 (d) 0
- g. The sum of all angles of a triangle is:
(a) 90° (b) 120° (c) 180° (d) 200°
- h. $28ab^2 - 12ab^2$ is:
(a) $19a^2b^2$ (b) $16ab^2$ (c) $12ab^2$ (d) $28ab^2$
- i. The cardinal number of an infinite set is:
(a) 0 (b) 1 (c) not defined (d) none
- j. Three or more lines which pass through the same point are called lines.
(a) Intersecting lines (c) Concurrent lines
(b) Collinear lines (d) None



Question 2.

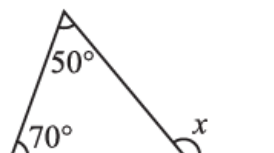
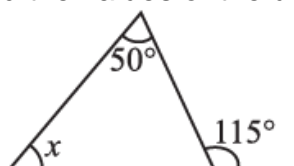
- a. Do as directed: [4]
- i. Express as an algebraic expression: 'x is multiplied by the sum of y and 3'
 - ii. Write in Roster form: B = Set of natural numbers less than 6.
 - iii. One angle of a right-angled triangle is 50° . Find the other acute angle.
 - iv. A number decreased by 9 is equal to 40. Find the number.
- b. Fill in the blanks: [3]
- i. A _____ number of points lie on the line in a plane.
 - ii. The perpendicular bisector divides the line segment in _____ equal parts.
 - iii. $-20 + (-34) =$ _____
- c. Sunder has 50 chocolates in a basket. He gave $\frac{2}{5}$ of these chocolates to Ram and he ate $\frac{1}{5}$ of them. How many chocolates are still left with Sunder? [3]

Question 3.

- a. Find the sum of the largest and the smallest seven-digit numbers. [2]
- b. Out of 50 students of a class, 28 are boys. What is the percentage of girls? [2]
- c. State TRUE or FALSE. If False, correct the statement: [3]
- i. The literal coefficient of -7 in the term $-7xy^3$ is xy.
 - ii. If $P = \{1,2,3,4,5,4,2,\}$ then $n(P) = 7$
 - iv. A square is a four-sided plane open figure.
- d. Subtract the sum of 462.2 and 2.004 from the sum of 652.2 and 2.009 [3]

Question 4.

- a. Find the value of $ab + 2bc + ca + 4abc$, when $a = 3$, $b = -3$ and $c = 2$. [2]
- b. Write the following numerals using the Indian System or International system (as required) in words: [2]
- i. 605,779
 - ii. 78,34,960
- c. Find the values of the unknown exterior angle x in the following figures: [2]



i.

ii.

d. Solve for x: i. $6(2x-1) - 5(x-3) = 2(x+2)$ [2]

ii. $2 + \frac{5x}{3} + 3 = x + 6$ [2]

Question 5.

a. 70 is increased by 40%. Find the increased number. [2]

b. The sum of two consecutive natural numbers is 39. Find the numbers. [2]

c. Round off each of the following to: [3]

i. 65,478 (nearest thousands)

ii. 90,555 (nearest tens)

iii. 33.662 (nearest hundredths)

d. Match column A and column B with the help of the figure given below: [3]

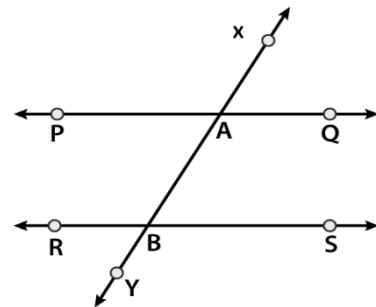
Column A

Column B

(i) Vertically opposite angles (i) $\angle PAB$ and $\angle ABS$

(ii) Alternate angles (ii) $\angle PAB$ and $\angle RBY$

(iii) Corresponding angles (iii) $\angle PAB$ and $\angle XAQ$



Question 6.

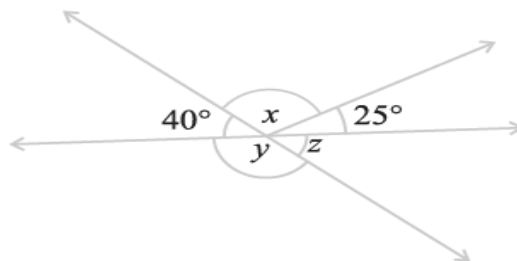
a. Two complementary angles are in the ratio 4:5. Find the angles. [2]

b. State whether the following sets are equal or equivalent: [2]

i. The set of Letters of the word RACHNA and the set of Whole numbers less than 5.

ii. The set of Prime number less than 2 and { }.

c. Giving suitable reasons, find the values of x, y, and z in the figure given below: [3]



d. Simplify: $2\frac{1}{3} + \frac{7}{9} \div (\frac{27}{10} - 2\frac{1}{2})$ [3]

Question 7.

- a. What is the difference in height between a point 150 m above sea level and 40 m below sea level? [1]
- b. Evaluate using properties:
 - i. $4444 \times 988 + 12 \times 4444$ [2]
 - ii. $2346 \times 999 + 2346$
- c. Express:
 - i. 20 as a percentage of 50
 - ii. 90 cm as a percentage of 4.5 m
 - iii. 30 minutes as a percentage of 5 hours[3]
- d. The total weight of 5 identical bricks is 20.5 kg. Find:
 - i. the weight of each brick.
 - ii. The total weight of 10 such bricks[2]
- e. Estimate the product of 342 and 547 by rounding off each number to the nearest hundred. [2]

Question 8.

- a. From the sum of $7x^2 - 2x + 8$ and $-3x^2 + 5x + 2$, subtract $2x^2 + x + 1$ [2]
- b. Find the integer which is:
 - i. 8 less than -4
 - ii. 9 more than -2[2]
- c. Find the supplement of each of the following:
 - i. 67°
 - ii. $\frac{1}{5}$ of 160°[3]
- d. Ryaan's age is 'a' years and his mother's age is 'b' years. [3]
 - i. Write this statement in mathematical form:
 - ii Ryaan's mother is 3 years more than thrice as old as Ryaan.
 - iii. Find Ryaan' age when the age of his mother is 36 years.
