Grade-VII

Mathematics

Time: 2 Hours ASSESSMENT-1 MM-35

Instructions: Read the question paper carefully. Write neatly and legibly with correct question numbers. Do not over write. All working, including rough work, must be shown clearly. Check the answers before submitting the answer sheet.

SECTION-A(Each question carry 1 mark)

(Choose the correct answer)

i) which of the following figures has only one line of symmetry?

a) Rectangle

b) A parallelogram

c) An isosceles trapezium

d) A circle

ii) The number of edges in a cube is

a) 11

b) 10

c) 12

d) 13

iii) A circle has

a) one line of symmetry

b) two lines of symmetry

c) no line of symmetry

d) an unlimited number of lines of symmetry

iv) vertically opposite angles are

a) are complementary

b) are supplementary

c) are equal

d) form a linear pair

v) the sum of linear pair of angles is

a) 0°

b) 90°

c) 180°

d) 360°

vi) two lines which never meet are called

a) concurrent lines

b) parallel lines

c) intersecting lines

d) rays

vii) $(-2)^5$ is equal to :-

a) 4

b) -8

c) 16

d) -32

viii) A rational number is expressible as a repeating decimal, if its denominator has at least one prime factor, other than

a) 2 or 3

b) 2 or 5

c) 3 or 5

d) only 1

ix) Which of the following rational numbers is an improper fraction?

a) 3/5

b) 1/ 200

c) 11/10

d) 32/40

x) The multiplicative inverse of -3/7 is _____.

a) (-7) / 3

b) 3 / 7

c) 4 / 7

d) 7 / 3

SECTION-B (Each question carry 2 marks)

(Attempt any 5 question)

Q.II) i) if z° and $(z+50)^{o}$ are supplement of each other. Find the value of x.

Q.III simplify :- 100 - 32.5 - 46.74 - 12.213.

Q.IV) Express $(-5/8)^{11} \div (-5/8)^{8}$ in a rational number.

Q.V) i) Find the product :- 7/18 × 19/14

ii) Divide:- 8 1/21 ÷ 1 6/7

Q.V what should be subtracted from -3/5 to get 7/10 ?

Q.VII) A coin is tossed 200 times. We obtained a head 118 times and tail 82 times. On tossing the coin at random, find the probability of getting

i) a head

ii) a tail

SECTION-C (Each question carry 3 marks)

(Attempt any 5 questions)

Q.VIII) Arrange the following in descending order-

11/12, 13/18, 7/9

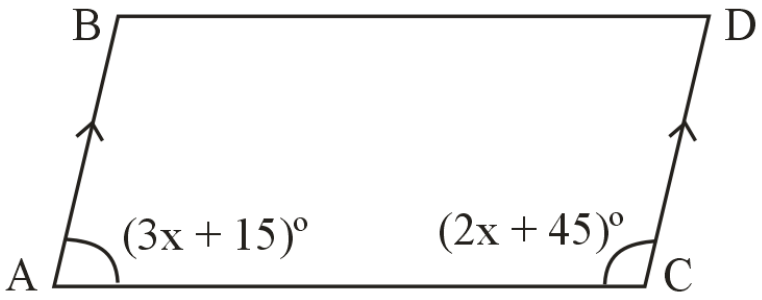
Q.IX) Evaluate -

-13/8 + 7/16 + –3/4

Q.X) verify the following:

(-10) x {(-7)+(-9)}={(-10) x (-7)} {(-10) x (-9)

Q.XI) In the given figure, AB || CD. If <BAC = $(3x+15)^o$ and < ACD = $(2x+45)^o$, find the value of x also find the measures of < BAC and < ACD.



Q.XII) A die is rolled 100 times and the outcomes are noted and tabulated as shown

outcome	1	2	3	4	5	6
frequency	9	15	19	21	24	12

When a die is rolled at random, find the probability of getting the number

i) 2

ii) 4

iii) 6

Q.XIII) A car covers a distance of 276.75km in 4.5 hours. What is the average speed of the car?