PANCHSHEEL PUBLIC SCHOOL

10+2 Senior Secondary School (Affiliated & Recognized by CBSE)

Jaitpur, Badarpur, New Delhi-44

MIDTERM SAMPLE PAPER

SESSION 2023-24

Time: 2 hours **Subject: Mathematics** **Class: VII** **M. Marks: 50**

Name – _____ **Date - _____**

Q.1. Choose the correct option. **(5 x 1 = 5)**

a) **Predecessor of (-99) is _____.**
   i) **-100** ii) **-98** iii) **None of these**

b) **$3\frac{4}{5}$ is the example of _____.**
   i) **Proper fraction** ii) **Improper fraction** iii) **None of these**

c) **The additive inverse of (-1/5) is _____.**
   i) **-1** ii) **-5** iii) **1/5**

d) **On multiplying exponents with the same base, powers are _____.**
   i) **Added** ii) **Subtracted** iii) **Multiplied**

e) **A triangle has _____.**
   i) **Three angles** ii) **four angles** iii) **Six angles**

Q.2. Fill in the blank _____. **(5x1 =5)**

a) **Sum of three angles of a triangle is equal to _____.**
b) **_____ has a fixed length.**
c) **The exponential form of (3x3x3x3x3x3x3) is _____.**
d) **Additive identity of an integer is _____.**
e) **Multiplicative inverse of 3/7 is _____.**

Q.3. Write true/false _____. **(5x1 =5)**

a) Predecessor of 0 does not exist.

**b) Multiplication of integers is commutative as well as associative.**

c) All integers are rational numbers also.

d) Reciprocal of 0 does not exist.

e) The sum of two complementary angles is 180°.

Q.4. Solve these _____. (6x2 =12)

a) Product of two numbers is 0 if one of them is (-25). Find other number.

b) Find 2/5 of 1meter.

c) Write 2 equivalent fraction of (5/11).

d) If $\frac{4}{7} = \frac{x}{49}$, find the value of x.

e) Subtract $\frac{-7}{9}$ from $\frac{3}{5}$.

f) Write $\frac{8}{125}$ in an exponential form.

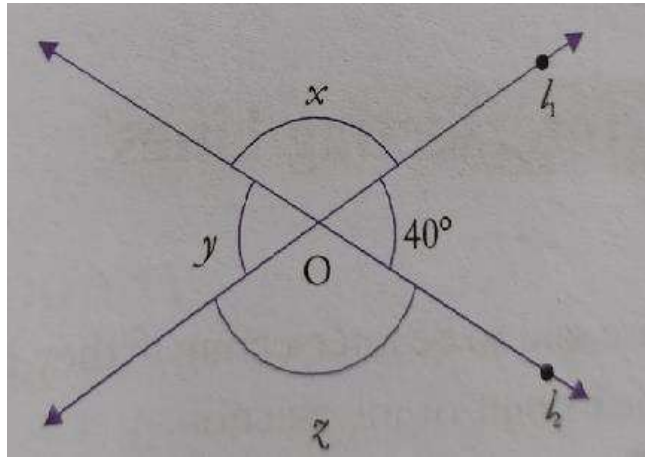**Q.5. Solve these _____.   (5x3 =15)**

a) In triangle ABC, BC is produced to D. If angle ACD is equal to 110° and angle ABC is equal to 70° find angle BAC.
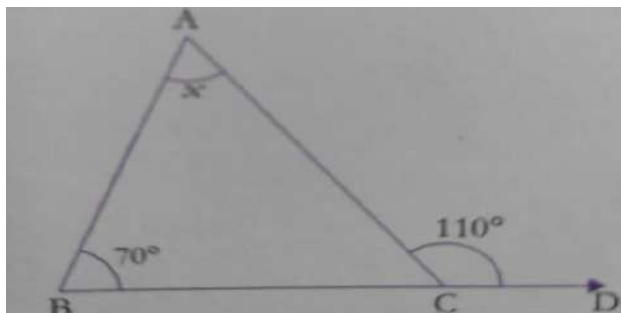
b) Simplify ___ $(5^2 \: X \: 5^4) \div 5^3$.

c) What number should be added to $\frac{-3}{5}$ to get $\frac{7}{3}$.

d) In a quiz, team A scored 45, -50 and 75 in three successive rounds whereas B scored -45, 50 and 25. Which team scored more and how much?

e) Lines P and Q intersect at o. Find the value of x, y and z.

Q.6. Solve these _____ (4x2 =8)

a) If one of the angle of a triangle is 65° and the other two angles are in the ratio 2:3. Find the other two angles.

b) Subtract the sum of $\frac{2}{3}$ and $\frac{-3}{2}$ from the sum of $\frac{4}{3}$ and $\frac{-5}{6}$.