DELHI PUBLIC SCHOOL FIROZABAD

Half yearly Examination - Term 1

Subject-Mathematics

Class-VI **M.M. 80**

Duration: 3 hrs

Adm. No._____ Name _____ Date _____

General Instructions:

1. All questions are compulsory.
2. Marks for each question are mentioned appropriately.
3. Question paper is divided into five sections A,B,C,D,E.
4. Do not write anything on the question paper.

Section 'A'

Q.1. Tick the correct answer **(0.5x10=5)**

A) Which of the following number is correct according to International System of Numeration?

a) 10, 00,908 b) 1,000,908 c) 1,00,09,08 d) None of these

B) 1 cm = _____ mm

a) 100 b) 10 c) 1 d) 1000

C) What is the predecessor of 10000?

a) 10001 b) 10000 c) 9999 d) 99999

D) Which of the following is not divisible by 9?

a) 1008 b) 8208 c) 2178 d) 2233

E) Which of the following is a whole number?

a) 0 b) 1 c) Both of these d) none of these

F)What is the successor of (- 7)

a) 6 b) 8 c) -8 d) -6

G) Which of the following are mixed fractions?

a) $\frac{1}{2}$ b) $\frac{7}{10}$ c) $\frac{17}{12}$ d) None of these

H) Which number is a factor of every number?

a) 0 b) 1 c) 10 d) Not defined

I) Fractions with same denominator are called _____ fractions.

a) Like b) Unlike c) Proper d) Improper

J) What is 8 more than -7

a) 1 b) -1 c) -15 d) 15

Section 'B'

Q.2. Calculate the following as directed in the question: **(1 x 8 =8)**

A) Answer the following questions:

a) What is the numeral form of MCCX?

b)Which is the smallest whole number?

c)Which number is neither prime nor composite?

d)Name the longest chord of circle?

e) Simplify -5-(-8)

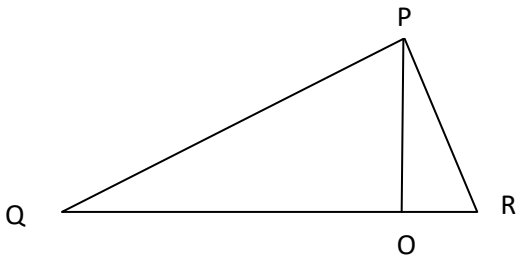
f) Convert $\frac{26}{65}$ into simplest form?

g) Find the equivalent fraction of 6/7 having :

i) Numerator 48

ii) Denominator 63

h)



i) Identify the possible triangles in the figures.

ii) Write the names of the possible line segments.

B) Fill in the blanks: **(1 x 7 =7)**

a) The sum of 5679 and 8436 after estimation to nearest 100's _____

b)The H.C.F. of two consecutive numbers is always _____

c) Greatest 4-digit number by using 7, 0, 5, 9 _____

d)23 x (5 + 4) = 25 x ____ + ____ x 4

e) A three sided polygon is called _____

f) Tally mark of 12 is _____

g) (-8) + ____ = (-12)

C) State whether the following statements are true or false. **(1 x 5 =5)**

a) The successor of 2-digit number is always a 2-digit number.

b) The sum of two prime numbers is always odd.

c) -5 lies to the left of 0 on the number line.

d) A pictograph represents data through pictures of objects.

e) Vertical line on a bar graph represents y-axis.

Section 'C'

Q.3. Solve the following as instructed in the statement: (2 x 10 =20)

A) Write the name of 45908129 according to Indian and International System of Numeration.

B) Draw any circle and mark its segment, chord, arc and radius.

C) Solve each of the following using general rule of estimation:

a) 17,810 + 62,789 b) 2399 x 126

D) Name the property in each of the following:

a) 23 + (12 + 43) = (23 + 12) + 43

b) 65 x 21 = 21 x 65

c) 56 + 89 = 89 + 56

d) 7 x (5 + 9) = (7 x 5) + (7 x 9)

E) A factory manufactures 7091 glasses in a day. How many glasses did it produce in the month of February 2000?

F) Represent $\frac{1}{8}$, ½, ¼ and $\frac{7}{8}$ on number line.

G) Solve the following using distributive property of multiplication over addition:

a) 43 x (9 + 2) b) (89 x 45) + (89 x 55)

H) Represent -7, -2, -1 and 4 on a number line

I) Add $\frac{2}{7} - \frac{11}{14} + 1\frac{1}{7}$

J) Use number line and add the following integers
(-2) – (-4) - 6

Section 'D'

Q.4. Read the question carefully and solve: (4 x 5 = 20)

A) Determine the smallest 3-digit number which is exactly divisible by 9, 24 and 36? And also find the H.C.F of 20, 28 and 36.

B) Solve the following integers:

a) (-280) –(- 378)

b) Add -300, 150 and -271

c) (-7) + (-2) + 4 + 16

d) Subtract (-6) from (-12)

C) a)Convert 14/91 and 75/105 into simplest form.
b) Write six equivalent fractions of 2/7.

D) The following are the numbers of books purchased for a library during the first four months of a year. Represent the details by a pictograph and answer the following questions.

Months	Number of books donated
January	20
February	26
March	30
April	34

a) How many books were donated in the month of March and April?
b) In which month the maximum numbers of books were donated?

E) Solve the following problems:

a) In class 6 there were 25 students, 20 got grade A in mathematics and in class 7 of 30 students, 24 students got grade A. In which class was a greater fraction of students getting grade A in mathematics?

Section 'E'

Q.5. Calculate the following questions: (3 x 5=15)

A) Solve the following word problem

a) In a morning walk, three persons step off together. Their step measures 80cm, 85cm, and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?
b) Find the least number which when divided by 12, 18, and 24 leaves remainder 7 in each case?

B) Draw a rough figure and label suitably in each of the following cases:

a) Point C lies on $\overline{PQ}$
b) $\overline{AB}$ and $\overline{CD}$ intersects at P
c) Line *m* contains G and H but not F
d) $\overline{AB}$ and $\overline{AD}$ meet at A
e) A pair of parallel lines *l* and *m*.

C) Number of persons in various age groups in a town is given in the following table.

Age group	1-14	15-29	30-44	45-59	60-74	75 and above
Number of persons	2 lakhs	1 lakhs 60 thousands	1 lakh 20 thousands	1 lakh 20 thousands	80 Thousand	40 thousands

Draw a bar graph to represent the above information and answer the questions.
(take 1 unit length= 20 thousand)

a) Which two age groups have same population?
b) All persons in the age group of 60 and above are called senior citizens. How many senior citizens are there in the town?