St. Xaviers's School, Delhi

1st Unit Test – 2014

Subject: Mathematics

Class 6   M.M. – 20

Answer all the questions on the answer sheet only.

Q1. Fill in the blanks –

1) Write the prime factorization of 40 = _____
2) HCF of 18 and 90 = _____
3) HCF of 19 and 25 = _____
4) LCM of 13 and 91 = _____
5) How many lines can be drawn through 2 given points = _____
6) A figure where initial point and end point coincide is called a _____ figure.
7) If a number is divided by its factor, the remainder is _____.
8) A ray has _____ length.

(1/2 marks x 8 = 4 marks)

Q2. Find the LCM by division method –

36, 60 and 48

(2 marks)

Q3. Find the HCF of the following numbers by long division method –

624, 936 and 264

(2 marks)

Q4. Find the HCF by prime factorization method –

42, 63 and 105

(2 marks)

Q5. Simplify the following –

   a) $75 \div [\, 20 - \{\, 42 \div 6 - (20 - 3 \text{ of } 6)\}]$
   b) $(3 \times 4 - 8) + (44 \div 11 + 6)$

(2 marks x 2 = 4 marks)

Q6. The HCF of 2 numbers is 54 and their LCM is 3888. If one of the numbers is 432, find the other number.
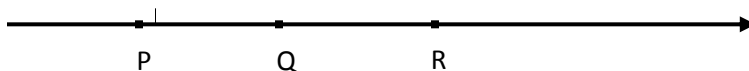
(2 marks)

Q7

(a). Draw a line segment of 4.5 cm using a compass and ruler.

(b). Draw a pentagon and name it.

(1 + 1 = 2 marks)

Q8. Study the figure given below and answer the questions asked.

a) Name the 2 rays.
b) Name 2 line segments

(1 + 1 = 2 marks)