DELHI PUBLIC SCHOOL
VASANT KUNJ
CLASS – VIII
MATHEMATICS
MONDAY TEST – 10.07.2017
SET – A

M.M. 30

I. Choose the correct option: (1×4=4)

Q1. Reciprocal of a negative rational number 'a' is
a) -a b) 1/a c) -1/a d) none of these

Q2. The square of 26384 will have _____ in its unit's place.
a) 2 b) 6 c) 4 d) none of these

Q3. Find the value of $\left[12^2+16^2\right]^{\frac{1}{2}}$
a) 10 b) 20 c) 24 d) None of these

Q4. A number when added to its two-fifth gives 35. Find the number.
a) 25 b) 30 c) 24 d) 15

II. Choose the correct option. (Show working). (2×3=6)

Q1. The area of a rectangle is $6\frac{1}{3}$ sq. cm. If the length of rectangle is $6\frac{1}{4}$ cm, its breadth is
a) $1\frac{1}{5}$ cm b) $1\frac{1}{75}$ cm c) $3\frac{1}{15}$ cm d) $4\frac{1}{5}$ cm

Q2. Value of x when $\frac{3x}{4}-\frac{2x}{5}=28$
a) 80 b) 560 c) 40 d) none of these.

Q3. $\frac{3364}{\sqrt{x}}=3.364$
a) 1000 b) 10000 c) 100000 d) 1000000

III Do as directed : (3×4= 12)

Q1. Find the smallest number by which 22050 must be divided so that the quotient becomes a perfect square.

Q2. Find five rational numbers between $\frac{-3}{2}$ and $\frac{3}{5}$.

Q3. Using properties find $\frac{2}{5}\times-\frac{3}{7}-\frac{1}{14}-\frac{3}{7}\times\frac{3}{5}$

Q4. Solve; $\frac{9-x}{2}-\frac{7+x}{2}=\frac{3}{2}$ (4×2=8)

IV. Solve the following.

Q1 Sameer has a total of Rs. 300 in coins of Re.1, Rs. 2 and Rs. 5. The number of Rs. 2 coin is three times the number of Rs. 5 coins. The total number of coins is 160. How many coins of each denomination are with Sameer?

Q2. Find the square roots of 3136 and 1764 using prime factorization and hence find the value of $\frac{\sqrt{0.3136}+\sqrt{0.1764}}{\sqrt{0.3136}-\sqrt{0.1764}}$