

## Worksheet : Number Theory

1. Which of the following is a natural number?
  - A. 0
  - B. -2
  - C. 11.5
  - D. 4
  
2. Which of the following is not a whole number?
  - A. 0
  - B. 100
  - C. -5
  - D. 4
  
3. The set of fractions  $\{\frac{3}{5}, \frac{2}{3}, \frac{7}{15}, \frac{1}{2}\}$  written in descending order of magnitude is
  - (A)  $\{\frac{1}{2}, \frac{2}{3}, \frac{3}{5}, \frac{7}{15}\}$
  - (B)  $\{\frac{2}{3}, \frac{3}{5}, \frac{1}{2}, \frac{7}{15}\}$
  - (C)  $\{\frac{7}{15}, \frac{1}{2}, \frac{3}{5}, \frac{2}{3}\}$
  - (D)  $\{\frac{7}{15}, \frac{3}{5}, \frac{2}{3}, \frac{1}{2}\}$

4. The HCF of 12, 21 and 36 is
- (A) 2
  - (B) 3
  - (C) 12
  - (D) 36
5. The LCM of 18, 24 and 40 is
- (A) 2
  - (B) 6
  - (C) 180
  - (D) 360
6. The difference between the values of 6 and 2 in the number 3 062 841 is
- (A) 40 000
  - (B) 58 000
  - (C) 400 000
  - (D) 580 000
7. The first four multiples of 5 are:
- (A) 1,2,3,4,5
  - (B) 5,10,15, 20,
  - (C) 5, 25, 125, 625.
  - (D) 5,50, 500, 5000.

8. Which of the following numbers is prime?

(A) 239

(B) 241

(C) 243

(D) 247

9. The base ten equivalent to  $1001_2$  is:

(A) 8

(B) 9

(C) 15

(D) 18

10. The set of integers is a subset of the set of:

(A) Counting numbers

(B) Whole numbers

(C) Positive integers

(D) Rational numbers