

**CBSE Board**  
**Class VI Mathematics**  
**Term 1**  
**Sample Paper - 4**

**Time: 1 hour**
**Marks: 25**

**Solution**  
**Section A**

1. Correct answer: B  
 The number just before 1000000 is one less than 1000000.  
 The required number =  $1000000 - 1 = 999999$ .
  
2. Correct answer: B  
 On a number line, -110 lies next to -111 on the right. Therefore, the successor of -111 is -110.
  
3. Correct answer: A  
 The given fraction is  $\frac{15}{18}$   
  
 Dividing the numerator and denominator by 3, we get,  

$$\frac{15 \div 3}{18 \div 3} = \frac{5}{6}$$
 Thus,  
 $\frac{15}{18}$  is equivalent to  $\frac{5}{6}$ .
  
4. Correct answer: D  
 The numbers 138 and 432 are divisible by both 2 and 3 and hence by 6.  
 The number 653 is neither divisible by 3 nor by 2 and hence not by 6.  
 Now, consider the number 531.  
 Since, the sum of the digits of the number 531 is divisible by 3, so 531 is divisible by 3. But it is not an even number, so it is not divisible by 2.  
 Thus, 531 is divisible by 3 but not by 6.
  
5. Correct answer: B  

$$\frac{1}{3} + \left(\frac{-1}{12}\right) = \frac{4 + (-1)}{12} = \frac{3}{12} = \frac{1}{4}$$
  
6. Correct answer: C  
 Every quadrilateral has four pairs of adjacent angles.  
 Example: For the quadrilateral ABCD, the pairs of adjacent angles are (i)  $\angle A, \angle B$   
 (ii)  $\angle B, \angle C$  (iii)  $\angle C, \angle D$  (iv)  $\angle D, \angle A$ .

**Section B**

7. The opposite sides of a parallelogram are parallel and equal.

Therefore,  $LM = NO$

$$\Rightarrow 2x + 2 = 40$$

$$\Rightarrow 2x = 38$$

$$\Rightarrow x = \frac{38}{2}$$

$$\Rightarrow x = 19$$

8. We have:

$$5\frac{1}{6} - 3\frac{5}{9} = \frac{(5 \times 6) + 1}{6} - \frac{(3 \times 9) + 5}{9} = \frac{31}{6} - \frac{32}{9}$$

3	6	9
	2	3

LCM of 6 and 9 =  $(3 \times 2 \times 3) = 18$

Converting fractions to like fractions and subtracting:

$$\begin{aligned} & \frac{31}{6} - \frac{32}{9} \\ &= \frac{(31 \times 3) - (32 \times 2)}{18} \\ &= \frac{93 - 64}{18} \\ &= \frac{29}{18} \\ &= 1\frac{11}{18} \end{aligned}$$

9. 90, 91, 92, 93, 94, 95, 96 are the required numbers.
10. Number of circles in step 1 =  $3 = 1 \times 2 + 1$   
 Number of circles in step 2 =  $5 = 2 \times 2 + 1$   
 Thus, we can observe that the number of circles is obtained by multiplying the step number by 2 and then adding 1.  
 Therefore, number of circles in the 100<sup>th</sup> step =  $(100 \times 2) + 1 = 201$

11.

2	20570
5	10285
11	2057
11	187
17	17
	1

$$20570 = 2 \times 5 \times 11 \times 11 \times 17$$

### Section C

12. Temperature in the morning =  $-14^{\circ}\text{F}$   
 Drop in temperature is written as  $-7^{\circ}\text{F}$ .  
 Temperature at present =  $-14^{\circ}\text{F} + (-7^{\circ}\text{F})$   
 $= -14^{\circ}\text{F} - 7^{\circ}\text{F}$   
 $= -21^{\circ}\text{F}$
13. Rs 13550 estimated to nearest thousands = Rs 14000  
 Rs 26788 estimated to nearest thousands = Rs 27000  
 Total estimated money (to be received) = Rs (14000 + 27000) = Rs 41000  
 He has to pay Rs 37000.  
 And  $41000 > 37000$   
 Therefore, he will be able to pay to his supplier with the money received.
14. (1) ABCDE is a pentagon.  
 (2) There are 5 pairs of adjacent sides as (i) AB,BC (ii) BC,CD (iii) CD,ED (iv) ED, EA (v) EA,AB