SET - I
SUMMATIVE ASSESSMENT - II - 2016 - 2017
MATHEMATICS
(English Medium)

Class : VI **(Max. Marks : 80)**

PART - A
SECTION - I $\qquad$ 4 x 2 = 8

1. Given the sum of 2 Integers = -156
   First Integer = 225 (½ mark)
   Second Integer = Sum of two Integers - First Integer (½ mark)
   = -156 - 225
   = - 381 (1mark)

2. Given digits are 7,5,3
   Two different 3 digits numbers formed using them are : 735,375 (½ m)
   Divisibility rule for 3 : If the sum of digits of a number is divisible by 3 then the number is divisible by 3 (½ m)
   735 : Sum of digits 7+3+5 = 15 is divisible by 3
   $\therefore$ 735 is divisible by 3
   375 : Sum of digits = 3+7+5 = 15 is divisible by 3
   $\therefore$ 375 is divisible by 3 (½ m)
   Divisibility rule for 5 : If the digit at units place is either 'o' or '5' then the number is divisible by 5.
   735,375 are divisible by 5. (½ m)
   Note:- Marks may be awarded for 'any other two numbers' and for verification.

3. Expression for " 7 is added to 6 times of P" is 6P+7 (1m)
   Expression for " 10 is subtracted from 2 tmes of K" is 2K-10 (1m)

4. Length of dress material bought by Mrs. Rajini for her Elder daughter = 6.25mtrs
   Length of dress material bought by Mrs. Rajini for her younger daughter = 5.75mtrs
   Total length of dress material bought by Mrs. Rajini for her two daughters
   = 6.25m+5.75m
   = 12.00meters
   = 12 metres

SECTION - I $\qquad$ 5x4 = 20

5. Given that 4 bells ring at a gap of 4,7,12,84 minutes respectively
   The time at which all the four bells ring = 8'O clock (1m)
   The time at which all the bells ring together again = L.C.M of 4,7,12,84 (½ m)

2	4,7,12,84
2	2,7,6,42
3	1,7,1,7
7	1,1,1,1

(1½ m)

= 2x2x3x7
= 84 minutes
= 1hour 24 min (½ m)

$\therefore$ The time at which all the bells ring after 8'O clock = 9'O clock 24 minutes (½ m)

6. Given expression is 2P+3

Value of 2P+3 at P = 4 is 2(4) + 3

= 12+3

= 15 (1m)

at P = -3 is 2(-3) + 3

= -6 + 3

= -3 (1m)

at P = 0 is 2(0)+3

= 0+3

= 3 (1m)

at P = $-\frac{3}{2}$ is $x\left(-\frac{3}{2}\right)+3$

= -3+3

= 0 (1m)

7. (a) Game, played by most of students = cricket (1m)

(b) No. of students played Kabaddi = 6x5 = 30

No. of students played Volleyball = 5x5 = 25

differnce = 30-25 = 5 (1m)

$\therefore$ 5 more students play Kabaddi than that of Volleyball (1/2 m)

No.of students played Kho-Kho = 3x5 = 15

No. of students played Cricket = 8x5 = 40

difference = 40-15 = 25 (1m)

$\therefore$ 25 less number of students play Kho-Kho then that of cricket (1/2 m)

8. (a) No. of end points that a linesegment has = 2 (1m)

(b) No. of end points that a Ray has = 1 (1m)

(c) No. of end points that a line has = 0 (1m)

(d) No. of end points that a circle has = 0 (1m)

9. The height at which a kite was flying from the ground = 250 metres

The height raised by kite = +50 metres

The height lowered by kite = -125 metres (2m)

Now, the height at which the kite was flying from the ground = 250+50-125metres

= 300-125

= 175metres (2m)

10-A The distance between the school and Gayatri's house = 1km875 metres, = 1.875km (1m)

Distance walked by Gayatri in one day = 1.875km+1.875km. = 3.750km (1m)

$$\begin{array}{r} 1.875 \\ 1.875 \\ \hline 3.750\text{km} \end{array}$$ (2m)

Total distance walked by Gayatri in 6 days = 3.750km x 6

= 22.500km (2m)

$$\begin{array}{r} 3.750\text{x}6 \\ \hline 22.500 \\ \hline \end{array}$$

$3\cancel{0}$

$42+3 = 4\cancel{5}$

18+4 = 22 (2m)

OR

10-B No. of Sweet boxes bought by Ramu = 19

No. of sweets contained in each box = 228 (2m)

$\therefore$ Total no. of sweets in 19 boxes = 228x19 = 4332 – 2

No. of sweets given to his friends 3456 – 1

No. of sweets left over = Total no. of sweets - no.of sweets given = 4332 – 3456

= 876 (2m)

11-A Time taken by Renu to walk around the school ground = $2\frac{1}{5}$

$= \frac{11}{5}$ (1m)

Time taken by Snigdha to walk around the school ground = $\frac{7}{4}$ minutes (1/2m)

$\frac{11}{5} = \frac{11}{5} \times \frac{4}{4} = \frac{44}{20}$

$\frac{7}{4} = \frac{7}{4} \times \frac{5}{5} = \frac{35}{20}$ [L.C.M of 5,4 = 20] (2m)

$\frac{35}{20} < \frac{44}{20}$ i.e., $\frac{7}{4} < \frac{11}{5}$ (1m)

$\therefore$ Snigdha takes less time to walk around the ground (1m)

difference = $\frac{44}{20} - \frac{35}{20} = \frac{44-35}{20} = \frac{9}{20}$ (1m)

$\therefore$ Snigdha takes $\frac{9}{20}$ minutes less time then that of Renu (1m)

11-B The distance that Anil supposed to walk = 10km

= 10.000km (1m)

Distance travelled by Anil by Bus = 5km, 28 metres = 5.028km

Distance travelled by Anil by Auto = 2km 256metres = 2.256km

Distance travelled by Anil by cycle = 1km 30metres = 1.030km

Total distance covered by Anil by all vehicles = 8.314km

Distance covered by Anil on foot = Total distance travelled - total distance travelled by all vehicles (1m)

= 10.000km-8.314km (1m)

= 1.686km (1m)

12-A (i) Given sequence : 3,6,9,12,....... (1m)

1st term	2nd term	3rd term	4th term	.....	nth term	
3	6	9	12	.....		
3x1	3x2	3x3	3x4	.....	3 x n	(2m)

$\therefore$ n^{th} term of the given sequence is 3n (1m)

(ii) Given equation is 2Z+3 = 7

L.H.S = 2Z+3, R.H.S = 1

Value of L.H.S at z = 2 is 2(2)+3

$= 4+3$

$= 7$

$=$ R.H.S (2m)

$\therefore$ 2 is a solution of given equation 2Z+3 = 7 (1m)

OR

12-B Fraction form of figure(i) = $\frac{3}{8}$

Fraction form of figure(ii) = $\frac{6}{8}$

Fraction form of figure(iii) = $\frac{4}{8}$

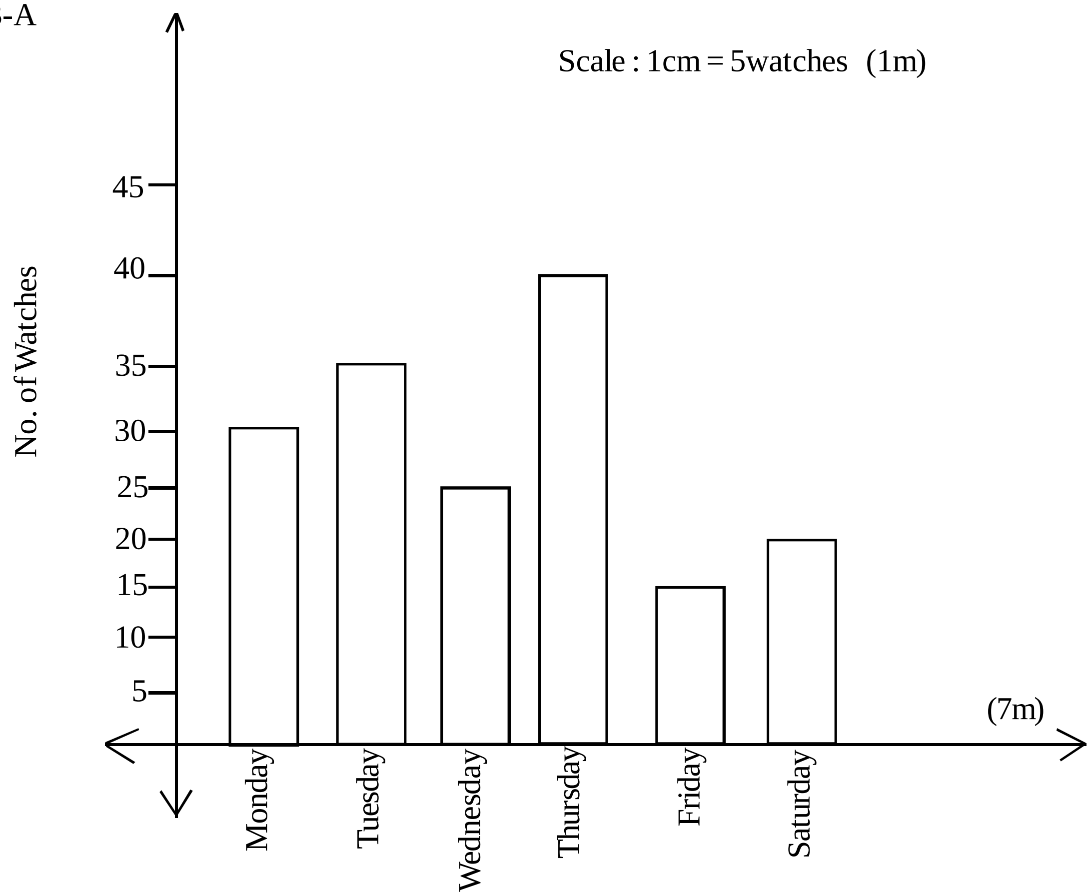
Fraction form of figure(iv) = $\frac{1}{8}$ (4m)

Ascending order of the fractions $\frac{3}{8}, \frac{6}{8}, \frac{4}{8}, \frac{1}{8}$ is

$$\frac{1}{8} < \frac{3}{8} < \frac{4}{8} < \frac{6}{8} \quad \text{(2m)}$$

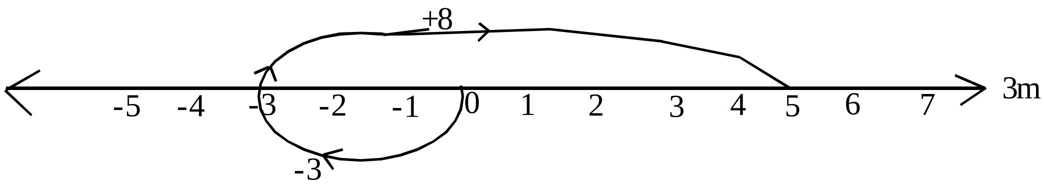
Decending order of the fractions is $\frac{6}{8} > \frac{4}{8} > \frac{3}{8} > \frac{1}{8}$ (2m)

13-A



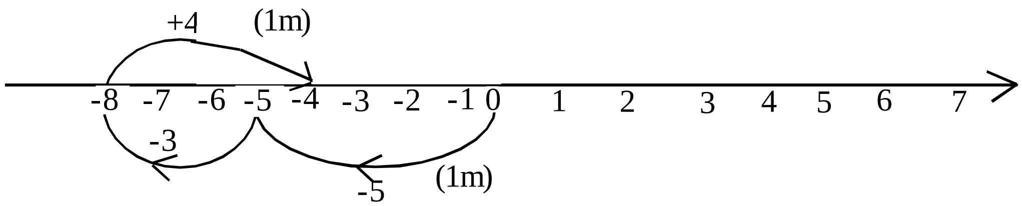
OR

13-B (i) Adding (-3),+8 on number line



(-3) + (+8) = + 5 (1m)

(ii) Adding (-5), (-3), (+4) on number line



(-5) + (-3) + (+4) = - 4 (1m)

PART - B
SECTION - IV

14 (D)	15(B)	16(C)	17(A)	18(B)	19(B)
20(C)	21(D)	22(C)	23(C)	24(C)	25(B)
26(B)	27(D)	28(D)	29(B)	30(C)	31(D)
32(B)	33(B)				