KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION

FORMATIVE ASSESSMENT – I , JULY – 2014

CLASS: VII **MAX MARKS: 40**

SUB: MATHEMATICS **TIME: 90 MINUTES**

SECTION – A

Multiple choice questions. 1M X 5 = 5M

1: The sum -10 + 3 = ...

A: 7 B: -10 C: 3 D: -3 ( )

2: The product (-1) X 225 = ...

A: -225 B: 225 C: 224 D: 0 ( )

3: The complement of angle 45° = ...

A: 90° B: 180° C: 45° D: 100° ( )

4: The reciprocal of 3/5 = ...

A: 5/3 B: 1 C: 0 D: -3/5 ( )

5: The mode of the data 1,1,2,4,3,2,1,2,2,4 is .....

A: 1 B: 2 C: 3 D: 4 ( )

SECTION – B

2M X 6 = 12M

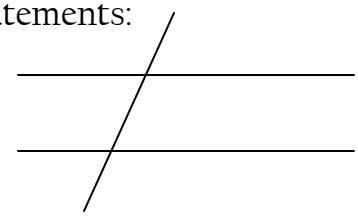
6: Write down a pair of integers whose:

i: Sum is - 7

ii: Difference is -10

7: State the property that is used in each of the following statements:

i: If a || b, then 1 = 5 ii: If 4 = 6, then a || b



8: Find:- i) ½ of 24

ii) 2/3 of 18

9: Find:- i) 1.3 X 10

ii) 153.7 X100

10: Find the mean of first five whole numbers.

11: Find the median of the data:

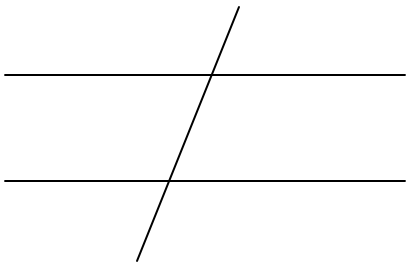
13, 16, 12, 14, 19, 12, 14, 13, 14

SECTION – C 3M X 5 = 15M

12: Find the product using suitable identity:

26 X (-48) + (-48) X (-36)

13:In the given figure, decide whether line 'l' is parallel to line 'm'.

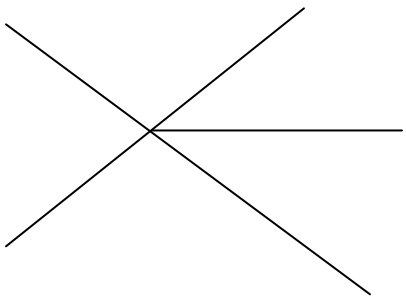


14: In the adjoining figure:

i: Is 1 adjoining to 2 ?

ii: Do COE and EOD from a linear pair ?

iii: Is 1 vertically opposite to 4 ?



15: Find: i) 0.35 ÷ 5

ii) 52.5 ÷ 10

iii) 7 ÷ 3.5

16: The marks (out of 100) obtained by a group of 10 students in a science test are 85, 76, 90, 85, 39, 48, 56, 95, 81 and 75. Find the:

i: Highest and the lowest marks obtained by the students.

ii: Range of the marks obtained.

SECTION – D 4M X 2 = 8M

17: Verify the following:

$$18 \times [7 + (-3)] = 18 \times 7 + [18 \times (-3)]$$

18: Solve: $7/10 + 2/5 + 3/2$

BLUE PRINT

S.NO	LESSON NAME	MCQ 1M	VSA Q 2M	SA Q 3M	LA Q 4M	TOTAL MARKS
1	Integers	1+1=2	1	1	1	11
2	Lines and angles	1	1	2		9
3	Fractions and decimals	1	2	1	1	12
4	Data handling	1	2	1		8
		5	6	5	2	40

MARKING KEY

SECTION A

1: B 2: A 3: C 4: A 5: B

SECTION B

6: i: $(-4) + (-3) = -7$ ---------- 1M (Any other similar examples)

ii: $(-20) - (-10) = -10$ ---------- 1M (Any other similar examples)

7: i: Each pair of corresponding angles are equal ---------- 1M

ii: A pair of alternative interior angles are equal ---------- 1M

8: i: ½ X 24 = 12 ---------- 1M

ii: 2/3 X 18 = 12 ---------- 1M

9: i: 13.0 ---------- 1M

ii: 1.537 ---------- 1M

10: First five whole numbers 0, 1, 2, 3, 4 ---------- 1/2M

$$\text{Mean} = \frac{0+1+2+3+4}{5} \text{ ---------- 1/2M}$$

$$= \frac{10}{5} = 2 \text{ ----------1M}$$

11: Arranging in ascending order ---------- 1M

Median = 14 ---------- 1M

SECTION C

12: (-48) X [26 + (-36)] ---------- 1M

= (-48) X (-10) ----------1 M

= 480 _____1 M

13: 126° + 54° = 180° ---------- 1M

Pair of interior angles on the same side of the transversal are supplementary ---1M

l || m ---------- 1M

14: i) yes ii) yes iii) yes _____ 1 + 1 + 1 = 3 M

15: i) 0.07 ---------- 1M

ii) 5.25 ---------- 1M

iii) 2 ---------- 1M

16: i) Highest mark = 95 ____ ½ M

Lowest mark = 39 _____ ½ M

ii) Range = Highest mark – lowest mark ---------- 1M

= 95 – 39 ---------- ½ M

= 56 ---------- ½ M

SECTION D

17: LHS = 18 X 4 ---------- 1M

= 72 _____ 1 M

RHS = 156 – 54 ---------- 1M

= 72 ---------- 1M

18: To find L.C.M = 10 ---------- 1M

$$= \frac{7 \times 1 + 2 \times 2 + 3 \times 5}{10}$$ ---------- 1M

$$= \frac{7 + 4 + 15}{10}$$ ---------- 1M

$$= \frac{26}{10} = \frac{13}{5}$$ ---------- 1M