KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION

FORMATIVE ASSESSMENT – 1(MODEL PAPER)

CLASS :- VII   **Max. marks :- 40**

SUBJECT :- Mathematics   **Time :- 90 min**

BLUE PRINT

S.No	Name of the lesson	1 mark	2 marks	3 marks	4 marks	TOTAL
1	Integers	1(1)	2(4)	1(3)	--	4(8)
2	Lines and angles	2(2)	2(4)	2(6)	1(4)	7(16)
3	Fractions and Decimals	2(2)	2(4)	2(6)	1(4)	7(16)
	TOTAL	5(5)	6(12)	5(15)	2(8)	**18(40)**

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SECTION – A(Each question carries 1 mark)

1. (-1)x(-1)x(-1)x(-1) is equal to
   (a) 2   (b) 1   (c) -1 (d) -2
2. Which of the following is a proper fraction?
   (a) 7/4   (b) 4/7   (c) -5/2   (d) None of these
3. 0.4 ÷ 2 =
   (a) 0.4   (b) 0.2   (c) 0.1   (d) 0.8
4. The supplementary angle for 50° is
   (a) 50° (b)40°   (c) 130° (d) 90°
5. The angle which is equal to its complement is
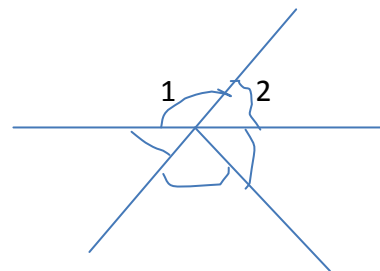   (a)   40° (b) 90° (c) 45° (d) 60°

SECTION – B (Each question carries 2 marks)

6. Evaluate (a) (-30) ÷ 10   (b)   (50) ÷ (-5)
7. Find the product (a) (-1) x (-225)   (b) (-15) x (-10) x 0
8. Express the following as rupees using decimals (a) 7 paise   (b) 230 paise
9. Find the value of   ⅔ of 18
10. From the given figureidentify a pair of

    (a) vertically opposite angles

(b) linear pairs   5   4   3

11. Fill in the blanks
    (a) If two angles are supplementary, then the sum of their measures is _____
    (b) If two lines intersect at a point, then the vertically opposite angles are _____

SECTION – C (Each question carries 3 marks)

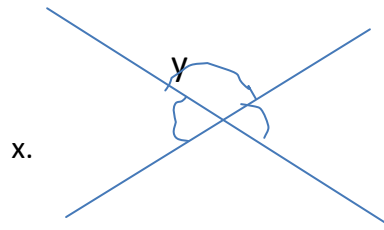12. Find the product using suitable property
    (a) 26 x (-48) + (-48) x (-36)
    (b) 8 x 83 x (-125)

13. Multiply and reduce to lowest form
    (a) $\frac{5}{2}$ x 6   (b) 20 x $\frac{4}{5}$

14. Find   (a) 12 ÷ $\frac{3}{4}$ (b) $\frac{4}{3}$ ÷ 2

15. Find the values of 'x ' and 'y' in the
    Following figure and give reasons
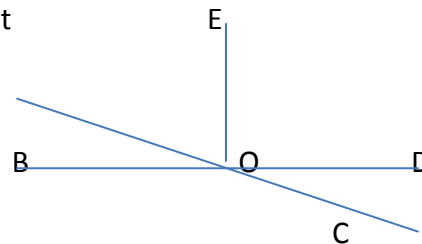
16. From the adjoining figure answer

    The following questions
    (a) Name one pair of the angles which are obtuse
         and vertically opposite
    (b) Name one pair of the angles which are adjacent
         and complementary anglesA
    (c) Name one pair of equal
         Supplementary angles

55°   x.

y

E

B ———————— O ———— D
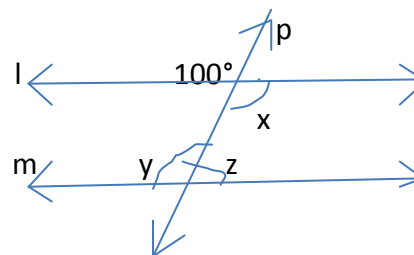
C

SECTION – D (Each question carries 4 marks)

16. Sushant reads 1/3 part of a book in 1 hour. How much part of the book will he read in
    $2\frac{1}{5}$ hours

17. In the given figure
    The line l ∥ m and p is a
    Transversal, then find the
    Values of x, y, z(Give reasons)

l ←———— 100° ————→

p

x

m ←— y   z —→

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ANSWER KEY

<u>SECTION – A</u> 1) b   2)b   3) b   4) c   5) c

<u>SECTION – B</u>

6) (a) -3   ---------------------------- 1 mark

     (b) -10   ------------------------------- 1 mark

7) (a) 225   -------------------------------- 1 mark

     (b) 0   ----------------------------------- 1 mark

8)   (a) Rs. 0.07   -------------------------- 1 mark

     (b) Rs. 2.30   -------------------------- 1 mark

9)   2/3   x 18 -------------------------------1/2 mark

        Simplification & final answer 12   --------------------------$1\frac{1}{2}$ mark

10)   (a) Vertically opposite angles are   2 and 5   --------------------- 1 mark

        (b) Linear pair(s) of angles 1 and 2 (OR) 1 and 5   -------------- 1 mark

11) (a) 180° -------------------------------- 1mark

       (b) equal ------------------------------ 1 mark

<u>SECTION C</u>

<u>12)</u> (a) -48 [(26) + (-36)] -------------------------- 1/2 mark

- 48 [-10] --------------------------- 1/2 mark

 480 -------------------------   1/2 mark

       (b) 83 x 8 x -125 ------------------ ½ mark

              83 x -1000 ------------------- $\frac{1}{2}$mark

              -83000 ---------------------- 1/2 mark

  13)   (a) 30/2   --------------------- 1 mark

                15 ------------------- ½ mark

            b) 80/5 --------------------- 1 mark

        16 ------------------- ½ mark

14)   (a)   12 x 4/3 ---------------------- 1 mark

16---------------------------- ½ mark

b)   4/3 x ½   --------------- ½ mark

2/3 -------------------- 1 mark

15)   (a) x = 55°(vertically opposite angles)   -------- $1\frac{1}{2}$ mark

(b) y = 125°(linear pair) ------------------------$1\frac{1}{2}$ mark

16)   (a) ∠AOD and ∠BOC are vertically opposite and obtuse angles--- 1 mark

b) ∠BOA and ∠AOE   are adjacent and complementary angles ---- 1 mark
c) ∠BOE and ∠DOE   are equal supplementary angles------- 1mark

SECTION D

17)   part of a book read in 1 hour = 1/3   --------- ½ mark

Total time   = $2\frac{1}{5}$hour   ------- ½ mark

= 11/5 hour   ------- 1 mark

Part of the book read in $2\frac{1}{5}$ hour = 11/5 x 1/3   ------- 1 mark

= 11/15 part ---------- 1 mark

18)   x = 100° (vertically opposite angles)

Y = 100°(corresponding angles **OR** alternate interior angles when compared with x)

Z = 80°(y and z are linear pair) OR

(X and z are the angles on the same side of transversal)

[for each answer 1 mark x 3 = 3marks & reason(s) 1 mark]