Sainik School Amethi

SUMMER HOLIDAY HOMEWORK
(2024-25)

CLASS: VIII

SUBJECT: MATHEMATICS

TASK – 1   Make the Short Notes of chapter 1,2&3 as discussed in the class.

INSTRUCTIONS:

1.   Write neat and clean on A4 Size Sheets.

2.   Make Border on each page.

3.   Make a neat and clean cover page with the following details:

a)   School Name- SAINIK SCHOOL AMETHI

b)   Title- SHORT NOTES

c)   Submitted by:-

d)   Student name

e)   Class

f)   Roll number

g)   Session- 2024-25

h)   Teacher's name

1.   **Staple the sheets along the left margin to make it a booklet. TASK – 2 Do all the work given in a separate notebook.**

Answer the following questions –

CHAPTER- 1

1)   Find 10 rational numbers between 1/5 and 2.

2)   Verify the property $X*(Y+Z) = X*Y+X*Z$ of rational numbers by taking $X= -1/2$ $Y= ¾$ & $Z= ¼$

3) Show on number line- a. 5/7 b.12/19 c.-13/9

4) Write the rational number 10.11 in the p/q format.

5) A train travels 1445/2 km in 17/2 hours. Find the speed of the train inKm/h.

6) Write the additive inverse of each of the following:-

a. 2/8   b. -5/9   c. -6/-5   d. 2/-9   e. 19/-6

7) Find the multiplicative inverse each of the following:-

a. -13   b. -13/19   c. -5/8*-3/7   d. -1*-2/5 e. 1/5

8) Name the property under multiplication:-

a. -4/5*1=1*-4/5=-4/5

b. -13/17*-2/7=-2/7*-13/17

c. -19/29*29/-19=1

d. 1/3*[6*4/3] = [1/3*6]*4/3

9) Evaluate using property:-

a. [-2/3*3/5+5/2-3/5]

b. 2/5*[-3/7+ (-1/6)]

10) Multiply 6/13 by the reciprocal of -7/16.

CHAPTER- 2

11) Solve:-

a. 8x = 20+3x

b. $\frac{3x+5}{2x+1} = \frac{1}{3}$

c. $\frac{x+6}{4} + \frac{x-3}{5} = \frac{5x-4}{8}$

d. $5x + \frac{7}{2} = \frac{3x}{2} - 14$

e. $5x - 2(2x - 7) = 2(3x -1) + \frac{7}{2}$

12. I have a total of Rs 300 in coins of denominator Rs 1, Rs 2 and Rs 5. The number of Rs 2coins is three times the number of Rs 5coins. The total number of coins is 160. How many coins of each denominator are with me?

13. The Perimeter of a rectangular pool is 154m . Its length is 2m more than twice its breadth. What are the length and breadth of the pool ?

14. Half of the number of boys of class 8B went to the football ground to play . One-fourth of the number of boys went to library to take books. Remaining 10 boys went to the 3rd language room. Find the numberof boys of Class 8B.

15. In triangle ABC, <A=<C and <B=<A+<C . Find the measures ofthe angles of the triangle.

16. The sum of twin primes is 60. Find the two prime numbers.
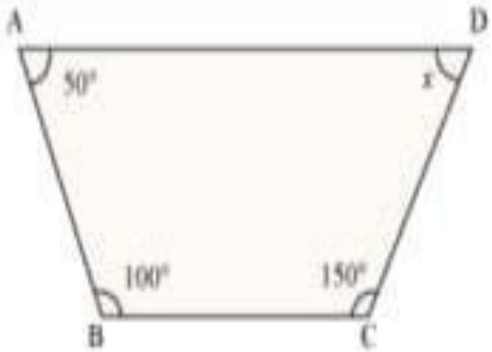
CHAPTER- 3

17. Draw and write the name of regular polygon having
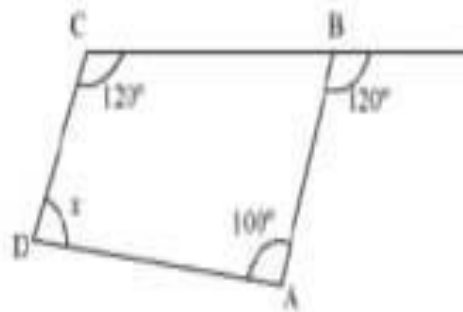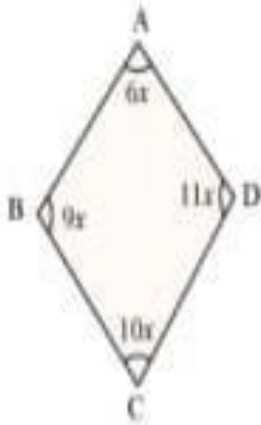
a.   3 sides

b.   9 sides

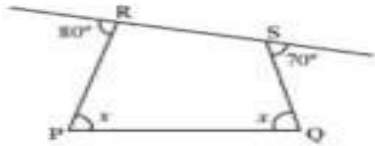**17.**   **Find value of x:-**
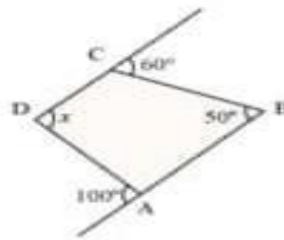

(a)

(b)
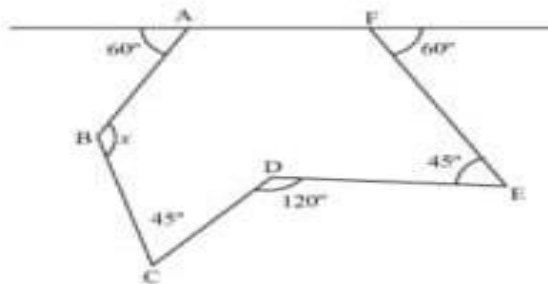
(c)

(d)

(e)

(f)

(g)

18.   What are the values of the Interior and exterior angles of aregular polygon with 47 sides?

19.   Give an example of a quadrilateral which is not a regularpolygon but its interior angles are same.

20.   Find the number of sides of a regular polygon in which eachexterior angle has a measure of 40°.

21. Do the following activity:

NOTE :-

 DO CHAPTER 3 FROM M.L AGGRAWAL BOOK .

ALSO BRING WITH M.L AGRRWAL, NCERT BOOK AND GEOMETRY BOX AFTER THE SUMMER VACATION .