

**Paper -1**

- Find the result of the following subtraction in the following cases and prove that the subtraction of whole number is not associative  
 $(155 - 18) - 57$  and  $155 - (57 - 18)$
- Addition of the largest one – two – three digit numbers : 452
- Represent the following integers on the number line :  $3 + 3$
- Simplify :  $16 - [40 - \{26 - (16 - 12 - 7)\}]$
- Estimate the following additions nearest 10 and 100 :  $48289 + 327$
- Find the measure of each exterior angle of a regular : octagon

**Paper – 2**

- Find the result of the following subtraction in the following cases and prove that the subtraction of whole number is not associative  
 $(88 - 55) - 15$  and  $88 - (55 - 15)$
- Subtraction of the largest one - two - three – digit numbers : 355
- Represent the following integers on the number line. :  $(-5) + 5$
- Simplify :  $16 - (-3) \{6 - 8 - 3\} \div \{5 - 5 - 1\}$
- Estimate the following additions nearest 10 and 100 :  $37895 + 4321$
- 2 Find the measure of interior angle of a regular polygon of sides : 15 sides

**Paper – 3**

- Find the result of the following subtraction in the following cases and prove that the subtraction of whole number is not associative  
 $(250 - 170) - 50$  and  $250 - (170 - 50)$
- Multiplication by the largest one – two - three digit number : 310
- Represent the following integers on the number line :  $1 + (-7)$
- Simplify :  $[105 \div \{23 + 2(9 - 5 - 2)\}]$
- Estimate the following subtractions nearest 10 and 100:  $56123 - 2476$
- What is the sum of all exterior angles of a regular polygon

**Paper – 4**

- Replace \* by the correct digit in each of the following

$$\begin{array}{r} 5001003 \\ - * * 6987 \\ \hline \end{array}$$

$$\begin{array}{r} 56897 \\ - * 5 * 7 * \\ \hline \end{array}$$

- Write the statement in integer form and also write its opposite : The temperature risen by  $8^{\circ}\text{C}$
- Represent the following integers on the number line :  $(-2) + (-4)$
- Simplify :  $8x - [\{3x + 4y + (4x - 2y + z)\}]$
- Estimate the sum by rounding off the numbers to their greatest place :  
 $19873 + 63297 + 9873$

6. What is the sum of all interior angles of polygon of 9 sides

### Paper – 5

1. Determine the following by arranging them in the most convenient manner.

$$(424 \times 12) - (424 \times 6) + (424 \times 4)$$

2. Indicate using '+' or '-' sign : 3 km below sea level

3. Represent the following integers on the number line : 3 – 8

4. Simplify :  $8x - [2y - \{3y + z(5y - x)\}]$

5. Estimate the product to its greatest place :  $415 \times 237$

6. What is number of diagonal in a heptagon

### Paper – 6

1. Determine the following by arranging them in the most convenient manner.

$$(674 \times 71) + (49 \times 674) + (30 \times 674)$$

2. Write the integers in the increasing order -213 , -123 , -321 , -231 , -312 , -132

3. Represent the following integers on the number line :  $(-4) - 1$

4. Simplify :  $3xy - 4\{-xy + (3 - \overline{2xy - z})\}$

5. Estimate the following product to its greatest place :  $17727 \times 352$

6. What is number of diagonal in a polygon of 12 sides

### Paper – 7

1. Use the distributive property to find the following products :  $82368 \times 98$

2. Write integers in the decreasing order : -237 , -537 , 115 , 221 , 3047 , -4002

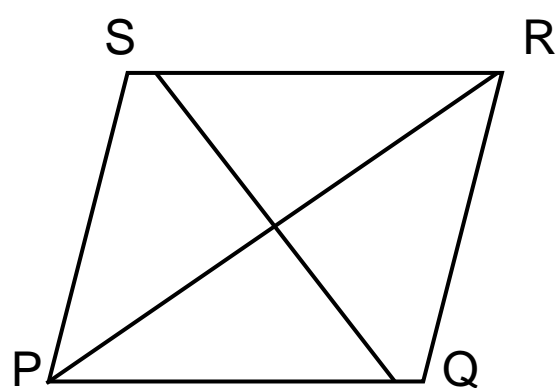
3. Represent the following :  $7 - (-4)$

4. Simplify and evaluate for  $x = 3$  and  $y = -1$

$$x^2 + y^2 - [4y^2 - \{2xy - 2(\overline{x^2 - xy + y^2})\}]$$

5. Estimate of the following to its greatest place :  $4340 \div 21$

6. In the adjoining figure PQRS is a quadrilateral



1. How many pairs of adjacent sides are there? Name them.

2. How many pairs of opposite sides are there? Name them.

3. How many pairs of adjacent angles are there? Name them.

4. How many pairs of opposite angles are there? Name them.

5. How many diagonals are there? Name them.

### Paper – 8

1. Use the distributive property to find the following products :  $1003 \times 990$
2. a) Order  $-7$  ,  $4$ ,  $-5$  and  $6$  from least to greatest. b) Write  $-2$  ,  $5$ ,  $0$  and  $-3$  from greatest to least
3. Represent the following : Find  $(-4) - (-6)$
4. Simplify and evaluate :  $3m - [ 4m + 3n^2 - \{ 2(5n^2 - 3m - 2n^2) \} ]$  where  $m = 1$  ,  $n = -5$
5. Find the estimated quotient for each of the following to its greatest place :  
 $929 \div 29$
6. The angles of a quadrilateral are in the ratio  $3 : 5 : 7 : 9$  . Find the measure of each of these angles.

### Paper – 9

1. Find the product using suitable rearrangement :  $50 \times 8 \times 4 \times 250$
2. The weather will be  $-12^\circ \text{C}$  tonight. The weatherman predicts it will be  $25^\circ \text{C}$  warmer by noon tomorrow. What will be the temperature be by noon tomorrow?
3. Represent the following on a number line  $\left(\frac{-3}{4}\right)$
4. Simplify and evaluate :  $\{ 27m + 7n - (4m \times 4) \} + 2$  for  $m = -2$  and  $n = 4$
5. Estimate and solve to the nearest hundreds :  $319 + 278$

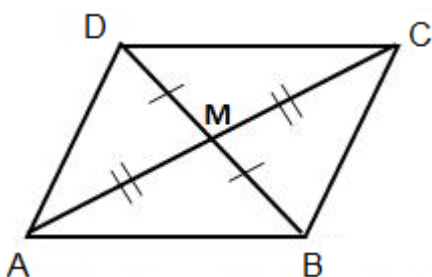
### Paper – 10

1. Find the product using suitable rearrangement :  $4671 \times 4 \times 50 \times 25 \times 8$
2. Sunny has Rs. 75 to spend. The purchase he wants to make requires Rs. 93. If he borrows the extra money that he needs, how much does he need to borrow?
3. Represent the following on a number line :  $1\frac{3}{4}$
4. Simplify and Evaluate  $3 \{ (8x \times 6) + 10(2y - 3x) \}$  for  $x = 4$  and  $y = 8$
5. Estimate the product to the nearest tens :  $78 \times 23$

Q-1 The given quadrilateral is a parallelogram.

Answer the following questions on the basis of the characteristics of a parallelogram.

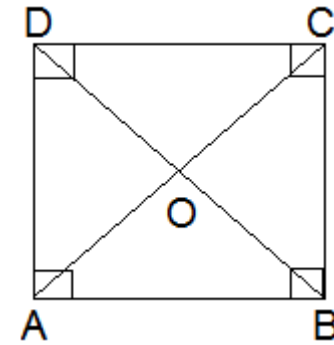
$AB = 5 \text{ cm}$  ,  $BC = 7 \text{ cm}$  ,  $\angle A = 60^\circ$  ,  $\angle B = 120^\circ$  ,  $MD = 2.2 \text{ cm}$   $AC = 2.5 \text{ cm}$



1. The measure of two adjacent angles i.e.  $\angle A = 60^\circ$  and  $m\angle B = 120^\circ$ . What is the measure of  $\angle C$  and  $\angle D$ .
2. State the measure of two diagonals and their measure.
3. State the Adjacent sides of AD and also write its measure.

4. State the opposite and adjacent angle of  $\angle B$  and their measure.
5. Find the measure of the following
  - a)  $AM = ?$       b)  $BD = ?$       c)  $BM = ?$
6. The given quadrilateral is a square  $\square ABCD$  answer the following questions on the basis of the characteristics of a square.

$CD = 8 \text{ cm}$        $AO = 3.4 \text{ cm}$



1. State the opposite and adjacent side of CD with their measure.
2. Prove that  $m\angle AOB + m\angle BOC + m\angle COD + m\angle AOD = 360^\circ$
3. State the two diagonals of the given square  $\square ABCD$  with their measure.
4. State the opposite and adjacent angle of  $\angle B$  with their measure.
5.  $AO = 3.4 \text{ cm}$  prove that  $AC = 2 AO$ .

### Paper – 11

1. The school canteen charges ` 20 for lunch and ` 4 for milk for each day. How much money do you spend in 5 days on these things?
2. A submarine was situated 450 feet below sea level. If it descends 300 feet, what is its new position?
3. Represent the following on a number line : 0.3
4. Simplify and evaluate :  $\{8a + 12b - (4c \times 4)\} - \{2(-3a - b - c)\}$  for  $a = -3$ ,  $b = 5$  and  $c = 7$
5. Estimate the following to the nearest thousands :  $9146 \div 2915$
6. Construct a parallelogram if the lengths of its adjacent sides are 4.5 cm and 5.5. cm and included angles is  $80^\circ$ .

### Paper – 12

1. A school charges ` 197 per month from each students for transport. In all there are 136 students using school bus. Find the total amount collected for the bus.
2. The temperature at 12 noon was  $10^\circ\text{C}$  above zero. If it decreases at the rate of  $2^\circ\text{C}$  per hour until midnight , at what time would the temperature be  $8^\circ\text{C}$  below zero?  
What would be the temperature at midnight?
3. Represent the following on a number line : -1.5
4. Simplify :  $15b^2 - [\{-2(4a^2 - 22ab + 6b^2)\} + 5a^2]$  for  $a = 6$  and  $b = -2$
5. Construct a parallelogram if the lengths of its adjacent sides are 4.5 cm and 5.5. cm and included angles is  $80^\circ$
6. Construct a rectangle whose adjacent sides are equal. Show that the given rectangle is a square.  
[ take any measure]