



Note: (1) Think and Answer (2) Mind Choices

Name:

Date:

<b>Areas of Improvement:</b>

<b>Maximum Marks</b>	<b>22</b>
<b>Marks Obtained</b>	
<b>%</b>	

<b>Parent's Signature</b>	<b>Parent's Signature</b>



**Section A** (any four)

[ 2 x 4 = 8 ]

Q1. Identify all the quadrilaterals that have

- (i) Four sides of equal length
- (ii) four right angles.

Q2. Explain how a square is

- (i) a quadrilateral
- (ii) a parallelogram
- (iii) a rhombus
- (iv) a rectangle.

Q3. If three angles of a quadrilateral are each equal to  $75^\circ$ , the fourth angle is

- (a)  $150^\circ$  (b)  $135^\circ$  (c)  $45^\circ$  (d)  $75^\circ$

Q4. The angles of a quadrilateral are in the ratio 1 : 2 : 3 : 4. The smallest angle is

- (a)  $72^\circ$  (b)  $144^\circ$  (c)  $36^\circ$  (d)  $18^\circ$

Q5. If the sum of the two angles of a quadrilateral is  $180^\circ$ . What is the sum of the remaining two angles?

**Section B** (any one)

[ 2 x 1 = 2 ]

Q6. Two angles of a quadrilateral are of measure  $65^\circ$  and the other two angles are equal. What is the measure of each of these two angles?

Q7. Two angles of a quadrilateral are  $68^\circ$  and  $76^\circ$ . If the other two angles are in the ratio 5 : 7; find the measure of each of them.

Q8. A quadrilateral has all four angles of the same measure. What is the measure of each?

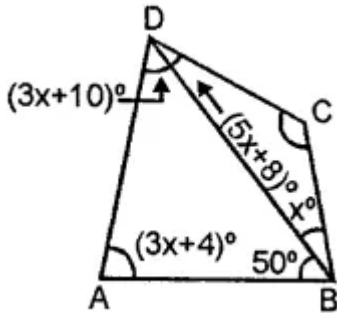


### Section C (any two)

[ 2 x 3 = 6 ]

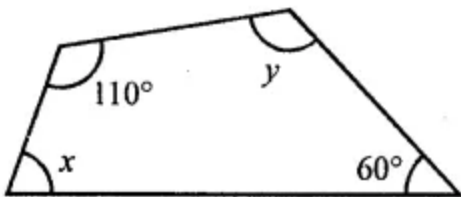
Q9. From the adjoining figure, find

- (i)  $x$
- (ii)  $\angle DAB$
- (iii)  $\angle ADB$



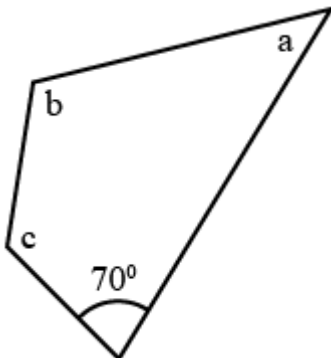
Q10. In the given figure, the value of  $x + y$  is

- (a)  $180^\circ$
- (b)  $190^\circ$
- (c)  $170^\circ$
- (d)  $160^\circ$



Q11. If two angles of a quadrilateral are  $77^\circ$  and  $51^\circ$ , and out of the remaining two angles, one angle is  $10^\circ$  smaller than the other, find these angles.

Q12. In the given figure:  $\angle b = 2a + 15$  and  $\angle c = 3a + 5$ ; find the values of  $b$  and  $c$ .





### Section D (any two)

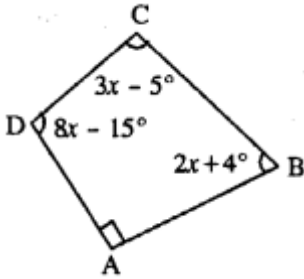
[ 3 x 2 = 6 ]

Q13. Angles of a quadrilateral are  $(4x)^\circ$ ,  $5(x + 2)^\circ$ ,  $(7x - 20)^\circ$  and  $6(x + 3)^\circ$ . Find :

- (i) the value of  $x$ .
- (ii) each angle of the quadrilateral.

Q14. Use the information given in the following figure to find :

- (i)  $x$
- (ii)  $\angle B$  and  $\angle C$



Q15. Given : In quadrilateral ABCD ;  $\angle C = 64^\circ$ ,  $\angle D = \angle C - 8^\circ$  ;  $\angle A = 5(a + 2)^\circ$  and  $\angle B = 2(2a + 7)^\circ$ . Calculate  $\angle A$ .

Q16. Find the measure of  $\angle P$  and  $\angle S$  if  $SP \parallel RQ$  ? in Fig 3.34. (If you find  $m\angle R$ , is there more than one method to find  $m\angle P$ ?)

