

# 7

## Relations among Quadrilaterals

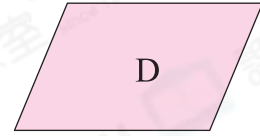
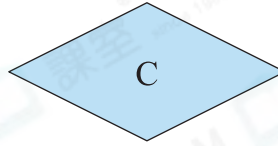
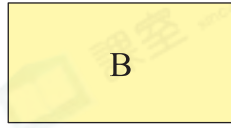
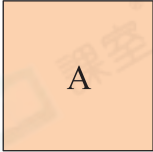


Date: \_\_\_\_\_

Mark: \_\_\_\_\_



Answer the following questions.



1. Compare the properties of the above quadrilaterals, put '✓' in the corresponding boxes in the table below.

Properties \ Shape	Shape A	Shape B	Shape C	Shape D
Opposite sides are parallel				
Opposite sides are equal in length				
All four sides are equal in length				
All four angles are right angles				

2. Sort the above quadrilaterals. Write down the letters for the answers.

(a) All squares: \_\_\_\_\_ (b) All rectangles: \_\_\_\_\_

(c) All rhombuses: \_\_\_\_\_ (d) All parallelograms: \_\_\_\_\_



Circle the answers.

3. Squares ( are / are not ) rectangles.

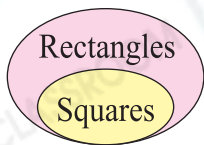
4. Rectangles are ( rhombuses / parallelograms ).

5. Squares ( are / are not ) rhombuses.

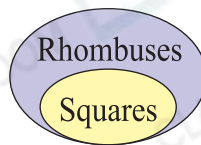
6. ( Rhombuses / Rectangles / Trapeziums ) are not parallelograms.

7. Which of the following diagrams is **incorrect**?

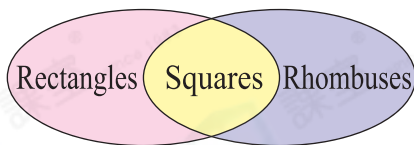
○ A.



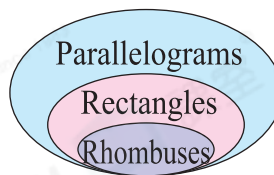
○ B.



○ C.



○ D.

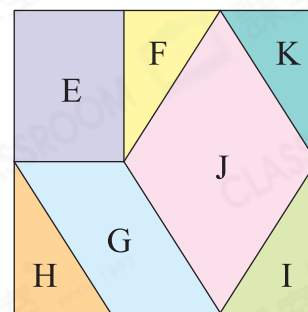


8. \_\_\_\_\_ and \_\_\_\_\_ have four sides equal in length and two pairs of opposite sides parallel.

9. The figure on the right is made of different shapes.

(a) Shape E ☆ is / is not ( ☆ circle the answer) a square.

(b) Shapes \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ have two pairs of opposite sides parallel. They are all \_\_\_\_\_.



10.



A 68-cm long metal wire forms a rhombus. Then its top is pushed to the left to form a new quadrilateral.

(a) The length of each sides of the rhombus is \_\_\_\_\_ cm.

(b) When all four angles of the rhombus are right angles, it is a \_\_\_\_\_.

11. Joyce used a rubber band to join points A, D, E and H.

(a) She made a \_\_\_\_\_.

(b) She moved the rubber band from point D to point \_\_\_\_\_, and from point E to point \_\_\_\_\_. A rhombus is formed.

