

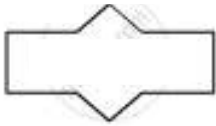
## Chapter 7: Symmetry

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### PRACTICE SET 20 [PAGE 41]

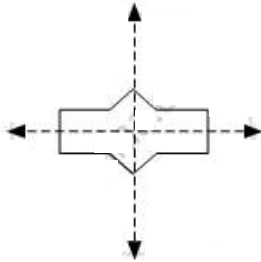
#### Practice Set 20 | Q 1.1 | Page 41

Draw the axes of symmetry of the figure below. Which of them has more than one axis of symmetry?



#### SOLUTION

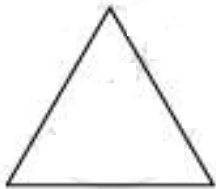
The axis of symmetry of a figure divides the figure into two equal parts.



The given figure shows have more than one axis of symmetry.

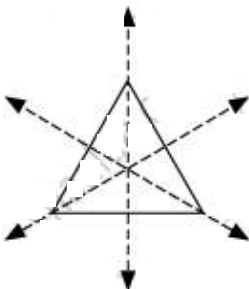
#### Practice Set 20 | Q 1.2 | Page 41

Draw the axes of symmetry of the figure below. Which of them has more than one axis of symmetry?



#### SOLUTION

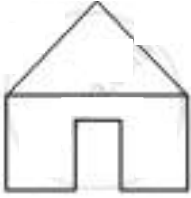
The axis of symmetry of a figure divides the figure into two equal parts.



The given figure shows have more than one axis of symmetry.

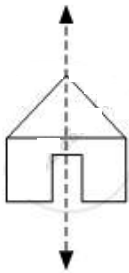
**Practice Set 20 | Q 1.3 | Page 41**

**Draw the axes of symmetry of the figure below. Which of them has more than one axis of symmetry?**



**SOLUTION**

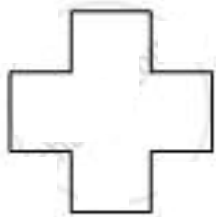
The axis of symmetry of a figure divides the figure into two equal parts.



The given figure shows have more than one axis of symmetry.

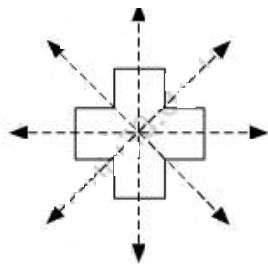
**Practice Set 20 | Q 1.4 | Page 41**

**Draw the axes of symmetry of the figure below. Which of them has more than one axis of symmetry?**



**SOLUTION**

The axis of symmetry of a figure divides the figure into two equal parts.

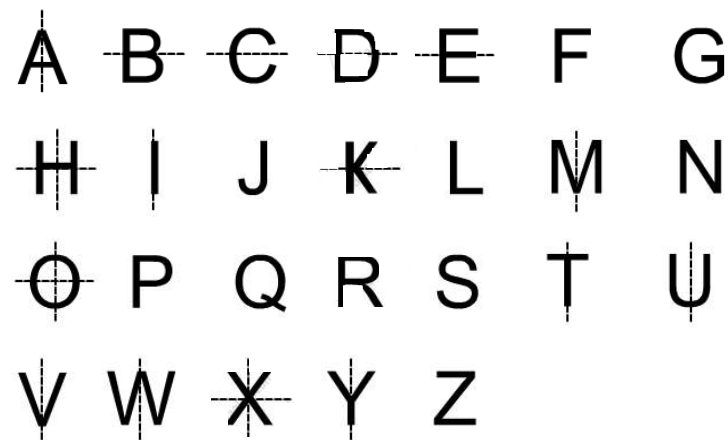


The given shows have more than one axis of symmetry.

**Practice Set 20 | Q 2 | Page 41**

Write the capital letters of the English alphabet in your notebook. Try to draw their axes of symmetry. Which ones have an axis of symmetry? Which ones have more than one axis of symmetry?

### **SOLUTION**



**Letters which have an axis of symmetry:**

A, B, C, D, E, H, I, K, M, O, T, U, V, W, X, Y

**Letters which more than one axis of symmetry:**

H, I, O, X

### **Practice Set 20 | Q 3 | Page 41**

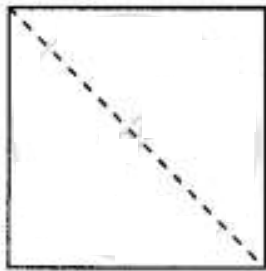
Use colour, a thread and a folded paper to draw symmetrical shapes.

### **SOLUTION**

Take any color, a thread, and a folded square paper.

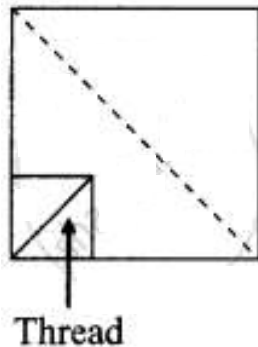
#### **Step 1:**

Take a folded square paper which is folded along one of its axis of symmetry.



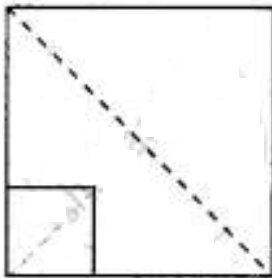
#### **Step 2:**

Open the paper. Draw a square in one corner. Place the thread in the square drawn and apply colour on it as shown in the figure.



**Step 3:**

Remove the thread. You will see a white patch where the thread was.



**Step 4:**

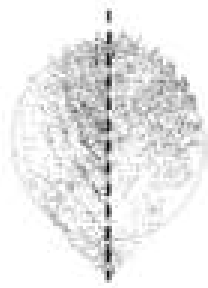
Fold the paper and press it along the axis of symmetry. When you unfold the paper, you will see an imprint on the other side of the fold which is identical to the color patch you had made earlier.

**Practice Set 20 | Q 4 | Page 41**

Observe various commonly seen objects such as tree leaves, birds in flight, pictures of historical buildings, etc. Find symmetrical shapes among them and make a collection of them.

**SOLUTION**

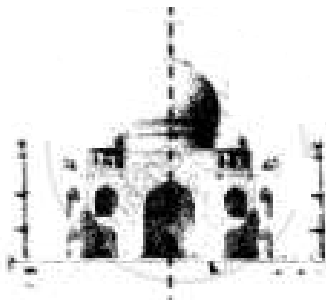
**Tree leaf**



**Bird in flight**



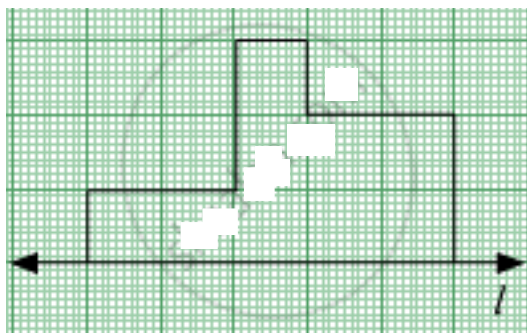
**Taj Mahal**



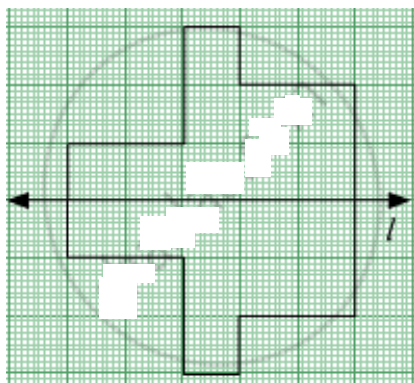
**PRACTICE SET 21 [PAGES 21 - 42]**

**Practice Set 21 | Q 1.1 | Page 42**

Along the figure shown below, a line  $l$  has been drawn. Complete the symmetrical figure by drawing a figure on the other side such that the line  $l$  becomes the line of symmetry.

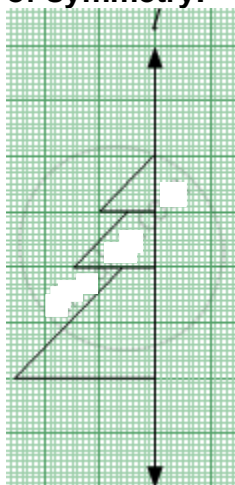


**SOLUTION**

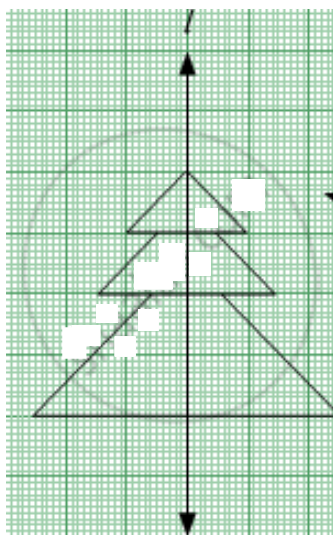


**Practice Set 21 | Q 1.2 | Page 42**

Along the figure shown below, a line  $l$  has been drawn. Complete the symmetrical figure by drawing a figure on the other side such that the line  $l$  becomes the line of symmetry.

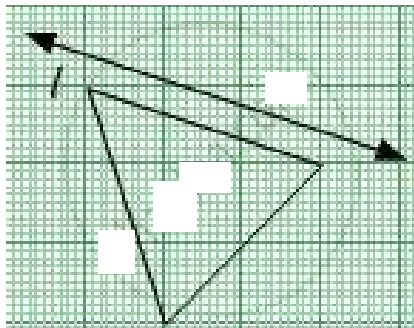


**SOLUTION**



**Practice Set 21 | Q 1.3 | Page 21**

Along the figure shown below, a line  $l$  has been drawn. Complete the symmetrical figure by drawing a figure on the other side such that the line  $l$  becomes the line of symmetry.



**SOLUTION**

