Worksheet

1. Fill in the blanks.

   a. A straight line that divides a shape into two identical shapes is called _____.

   b. A square has _____ lines of symmetry.

   c. The number of lines of symmetry in a letter H is _____ .

   d. A circle has infinite number of lines of symmetry such that each line passes through the _____.

2. Examine the following shapes and tell which of these have a line or lines of symmetry and which do not have line of symmetry? Write the number of lines of symmetry in each case.

   a. **C**

   b.

   c.

   d. **W**

   e.

   f. **P**
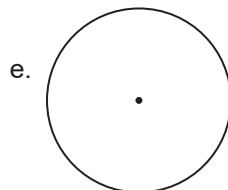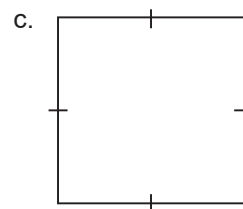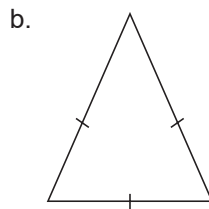
3. What other names can you give to the line of symmetry of

   a. an isosceles triangle?   b. a circle?

4. Construct a △PQR, with PQ = 6 cm, ∠P = 75°, ∠Q = 75° and draw its line(s) of symmetry.

5. Identify three examples of shapes with no line of symmetry.

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6. In the following figures, the mirror line (i.e, the line of symmetry) is given as dotted line. Complete each figure performing reflection along the dotted line. Name the complete figure.

a.

b.

c.

d.

e.
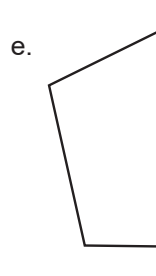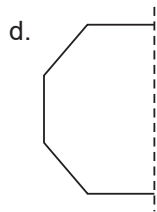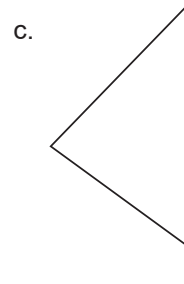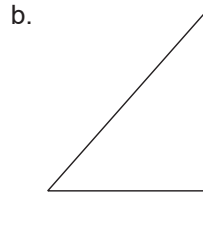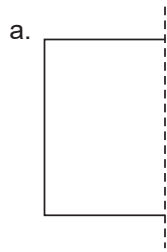
7. Copy the figure and show the images which form reflection along the given lines.

a.

b.

c.

d.
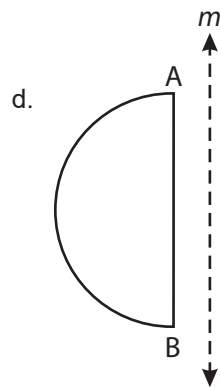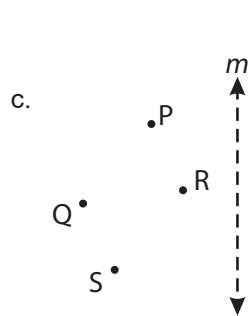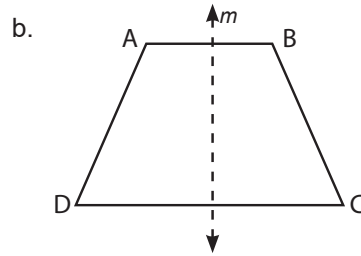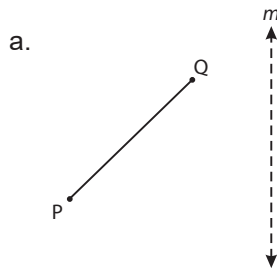
8. Letter of the English alphabet given below are symmetrical about a line (or lines). Identify the line(s) of symmetry.
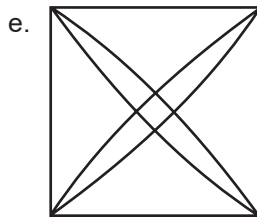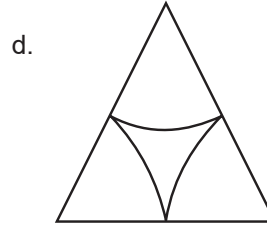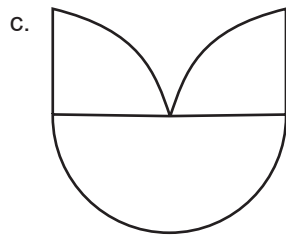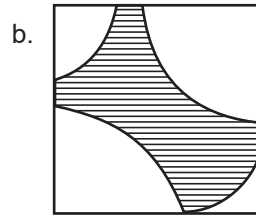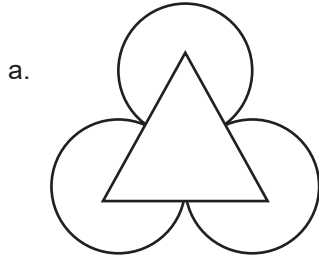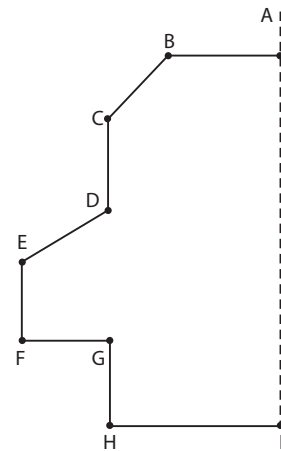
a. **A**

b. **U**

c. **O**

d. **X**

e. **E**

f. **H**

9. Identify multiple lines of symmetry, if any, in each of the following figures.

a.

b.

c.

d.

e.

10. Draw the reflection of the given shape along the dotted line.

Answers to Worksheet

1. a. line of symmetry   b. 4   c. 2   d. centre
2. a. Yes, 1   b. Yes, 3   c. Yes, 4   d. Yes, 1   e. Yes, infinite
   f. No
3. a. Altitude   b. Diameter
5. Parallelogram, Scalene triangle, Irregular polygon