EXERCISE

Q.1 Which of the following have reflection symmetry? Also find the lines of symmetry, if any.



Q.2 Draw all lines of symmetry in the following figures :



Q.3 Take paper sheets and a punching machine. Fold and punch so as to obtain each of the following figures. Then find the axis of symmetry for each of the following :



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Q.4 Give any 5 examples of shapes with no line of symmetry.

Q.5 Find the number of lines of symmetry for the following :

- (i) A circle
- (ii) A square
- (iii) A rhombus
- (iv) An equilateral triangle
- (v) An isosceles triangle
- (vi) A rectangle
- (vii) A parallelogram
- (viii) A regular octagon.
- Q.6 Two symmetrical figures are given in each of the following. State which of them are reflection and which are rotation.



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Q.8 Find the order of rotational symmetry of the following.



Q.9 Write down the order of rotational symmetry and also the number of lines of symmetry (where possible)



Q.10 Make up three shapes that have rotational symmetry only. Give the order of





- Q.12 Can we have a rotational symmetry of order more than 1 whose angle of rotation is :

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(i) 45° (ii) 17°

Q.13 Name the quadrilateral which have both line and rotational symmetry of order more than 1.

ANSWER KEY

- 1. Reflection symmetry : (ii), (iii) & (iv) ; Line symmetry : (i), (ii), (iii), (v)
- (i) Infinite lines (ii) Four lines (iii) Two lines (iv) Three lines (v) One line (vi) Two lines (vii) No line of symmetry in case of parallelogram (viii) Eight lines
- 6. (i) Rotation (ii) Reflection (iii) Reflection (iv) Rotation (v) Rotation (vi) Rotation
- 7. (i) Order 4 (ii) Order 3 (iv) Order 6
- **8.** (i) 2 (ii) 1 (iii) 8 (iv) 4 (v) 3
- 9. (i) Order = 1, Lines of symmetry = 1 (ii) Order = 5, Lines of symmetry = 3 (iii) Order = 1, Lines of symmetry = no (:: B is not in symmetrical) (iv) Order = 6, Lines of symmetry = 6
- 11. (a) (i) No (ii) No (iii) Yes, 4 (iv) Yes, 3 (v) Yes, 3 (vi) Yes, 2 (vii) No (viii) Yes, 4 (ix) Yes, 2
 (b) (i) No (ii) Yes, 1 (iii) Yes, 4 (iv) No (v) Yes, 3 (vi) Yes, 2 (vii) Yes, 1 (viii) Yes, 4 (ix) No (c) (iii), (v), (vi), (viii)
- 12. (i) Yes (ii) No
- 13. Square.