



1. Which of the following figures have two lines of symmetry?

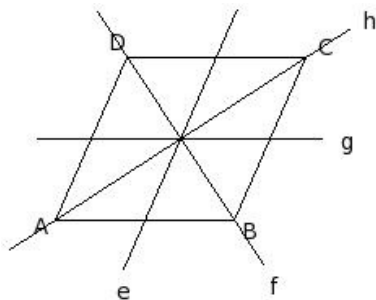
- a) angle with equal arms
- b) isosceles trapezium
- c) isosceles triangle
- d) scalene triangle
- e) kite
- f) rectangle
- g) square
- h) line segment

(i) {b,h} (ii) {f,h} (iii) {e,h,f} (iv) {a,f} (v) {c,d,f}

2. Which of the following English alphabet letters have one line of symmetry?

(i) H (ii) X (iii) Q (iv) F (v) K

3. Which of the following are line(s) of symmetry for the given rhombus?



(i) none (ii) { f, h } (iii) e (iv) { e, f, g, h } (v) h

4. If a figure has rotational symmetry of order 9, then it regain its shape after being rotated by an angle of

(i) 40° (ii) 35° (iii) 37° (iv) 43° (v) 45°

5. The English alphabet letter 'l' has how many lines of symmetry?

(i) zero (ii) infinite (iii) two (iv) three (v) one

6. Which of the following quadrilaterals have two lines of symmetry?

- a) isosceles trapezium
- b) rhombus
- c) square
- d) rectangle
- e) kite
- f) parallelogram
- g) trapezium

(i) {e,f,b} (ii) {g,d,b} (iii) {b,d} (iv) {c,d} (v) {a,b}

7. Which of the following quadrilaterals have one line of symmetry?

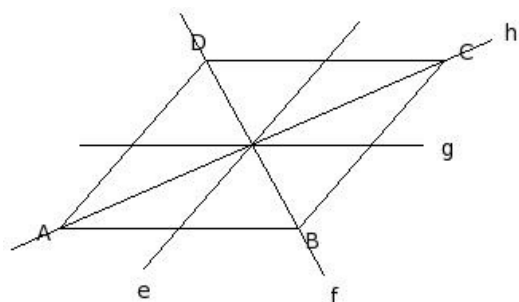
- a) rhombus
- b) isosceles trapezium
- c) trapezium
- d) rectangle
- e) square
- f) kite
- g) parallelogram

(i) {b,f} (ii) {d,e,b} (iii) {a,b} (iv) {g,f,b} (v) {c,f}

8. Which of the following English alphabet letters has rotational symmetry?

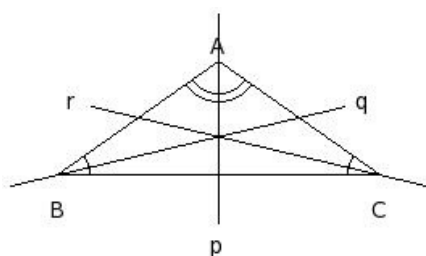
(i) G (ii) C (iii) J (iv) D (v) Z

9. Which of the following are line(s) of symmetry for the given parallelogram?



(i) g (ii) h (iii) none (iv) { e, f, g, h } (v) e

10. Identify the line(s) of symmetry in the following figure



(i) none (ii) { p, q, r } (iii) p (iv) r (v) q

11. Which of the following are true?

- a) A parallelogram has rotational symmetry of order four.
- b) A rhombus has rotational symmetry of order four.
- c) A square has rotational symmetry of order four.
- d) A rectangle has rotational symmetry of order four.
- e) A semi-circle has rotational symmetry of order two.

(i) {b,c} (ii) {d,e,c} (iii) {c} (iv) {a,c}

12. Which of the following English alphabet letters have zero lines of symmetry?

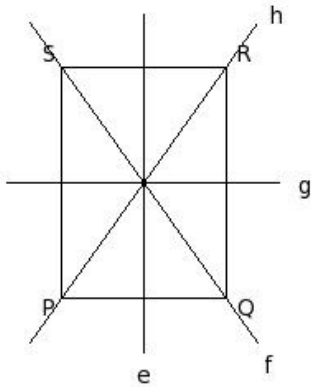
(i) K (ii) H (iii) N (iv) C (v) X

13. Which of the following quadrilaterals have no rotational symmetry?

- a) kite
- b) trapezium
- c) square
- d) rhombus
- e) rectangle
- f) parallelogram
- g) isosceles trapezium

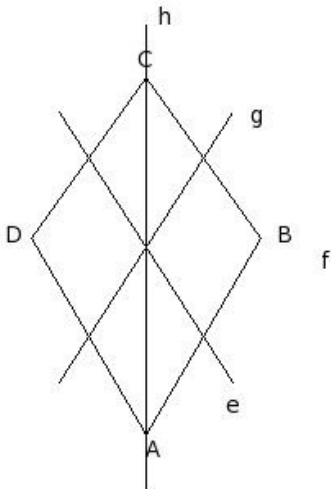
(i) {d,b} (ii) {e,f,g} (iii) {c,a} (iv) {c,a,b} (v) {a,b,g}

14. Which of the following are line(s) of symmetry for the given rectangle?



(i) { e, f, g, h } (ii) e (iii) { f, h } (iv) none (v) { e, g }

15. Which of the following are line(s) of symmetry for the given kite?



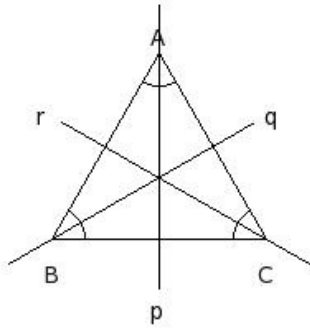
(i) e (ii) { f, h } (iii) { e, f, g, h } (iv) { e, g } (v) h

16. Which of the following quadrilaterals have three lines of symmetry?

- a) parallelogram
- b) rhombus
- c) square
- d) isosceles trapezium
- e) rectangle
- f) none
- g) trapezium

(i) {f} (ii) {b,f} (iii) {e,f} (iv) {c,d,f} (v) {a,f}

17. Identify the line(s) of symmetry in the following figure



- (i) { p, q, r } (ii) none (iii) p (iv) r (v) q

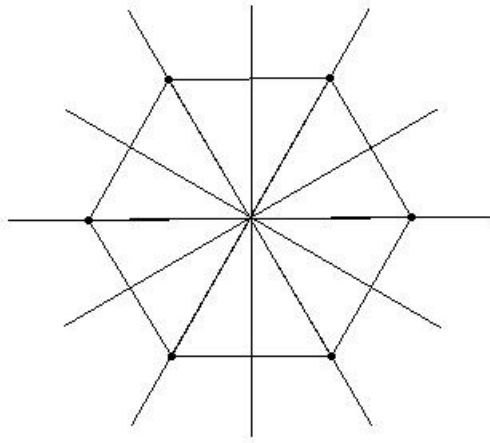
18. The English alphabet letter 'O' has how many lines of symmetry?

- (i) two (ii) infinite (iii) three (iv) zero (v) one

19. Which of the following English alphabet letters does not have rotational symmetry?

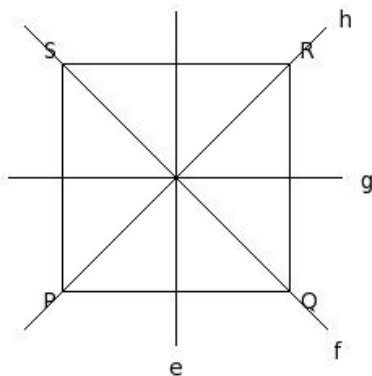
- (i) S (ii) Z (iii) C (iv) X (v) H

20. Given figure has how many lines of symmetry?



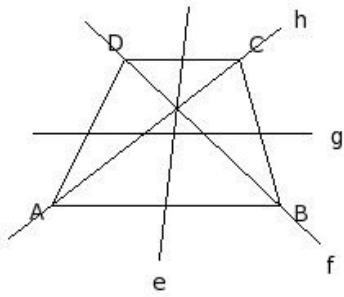
- (i) 4 (ii) 7 (iii) 5 (iv) 6 (v) 9

21. Which of the following are line(s) of symmetry for the given square?



- (i) g (ii) { e, f, g, h } (iii) { f, h } (iv) h (v) { e, g }

22. Which of the following are line(s) of symmetry for the given trapezium?



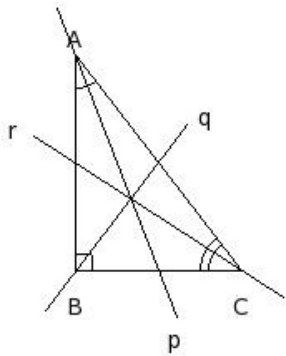
- (i) f (ii) none (iii) { e, f, g, h } (iv) g (v) { f, h }

23. Which of the following are true?

- a) If a polygon is not regular, it will have less number of axes of symmetry than the number of sides.
- b) If a quadrilateral has four lines of symmetry, then it is a regular polygon.
- c) Line of symmetry divides the polygon into two identical shapes.
- d) An n-sided regular polygon has $n/2$ lines of symmetry if n is even.
- e) If a triangle has two lines of symmetry, then it is a regular polygon.
- f) Lines of symmetry of a regular polygon are nothing but the diagonals of a regular polygon.
- g) A regular polygon of n sides will have n lines of symmetry.

- (i) {e,g,a} (ii) {d,a} (iii) {f,d,c} (iv) {e,b} (v) {a,b,c,g}

24. Identify the line(s) of symmetry in the following figure



- (i) p (ii) r (iii) q (iv) none (v) { p, q, r }

25. The English alphabet letter 'B' has how many lines of symmetry?

- (i) two (ii) one (iii) three (iv) zero (v) infinite

Assignment Key

1) (ii)	2) (v)	3) (ii)	4) (i)	5) (iii)	6) (iii)
7) (i)	8) (v)	9) (iii)	10) (iii)	11) (iii)	12) (iii)
13) (v)	14) (v)	15) (v)	16) (i)	17) (i)	18) (ii)
19) (iii)	20) (iv)	21) (ii)	22) (ii)	23) (v)	24) (iv)
25) (ii)					