



1. The English alphabet letter 'E' has how many lines of symmetry?
(i) three (ii) two (iii) infinite (iv) zero (v) one
2. The English alphabet letter 'H' has how many lines of symmetry?
(i) three (ii) two (iii) zero (iv) one (v) infinite
3. The English alphabet letter 'N' has how many lines of symmetry?
(i) three (ii) one (iii) two (iv) zero (v) infinite
4. The English alphabet letter 'O' has how many lines of symmetry?
(i) one (ii) two (iii) three (iv) zero (v) infinite
5. Which of the following English alphabet letters have one line of symmetry?
(i) H (ii) F (iii) B (iv) R (v) I
6. Which of the following English alphabet letters have two lines of symmetry?
(i) T (ii) Z (iii) K (iv) F (v) H
7. Which of the following English alphabet letters have zero lines of symmetry?
(i) V (ii) R (iii) H (iv) W (v) X
8. Which of the following figures have no line of symmetry?
 - a) line segment
 - b) scalene triangle
 - c) angle with equal arms
 - d) isosceles triangle
 - e) angle with unequal arms
 - f) equilateral triangle
(i) {a,b} (ii) {b,e} (iii) {d,f,b} (iv) {c,e} (v) {a,e,b}
9. Which of the following figures have one line of symmetry?
 - a) angle with equal arms
 - b) line segment
 - c) isosceles right angled triangle
 - d) angle with unequal arms
 - e) right angled triangle
 - f) equilateral triangle
 - g) isosceles triangle
 - h) scalene triangle
(i) {e,f,g} (ii) {h,a,c} (iii) {a,c,g} (iv) {b,a} (v) {d,c}

10. Which of the following are true?

- a) A figure can have multiple axes of symmetry.
- b) An obtuse angled triangle has zero lines of symmetry.
- c) Line of symmetry is perpendicular to axis of symmetry.
- d) Line of symmetry and axis of symmetry are same.
- e) A figure can be broken into two congruent shapes about its axis of symmetry.
- f) For every point on the figure on one side of the axis of symmetry, there is a corresponding point on the other side.
- g) A line segment has one line of symmetry.
- h) Axis of symmetry of a figure need not intersect with the figure at any point.

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

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

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

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

12. Which of the following figures have three lines of symmetry?

- a) scalene triangle
- b) line segment
- c) isosceles triangle
- d) right angle triangle
- e) isosceles right angled triangle
- f) equilateral triangle

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

13. A median is an axis of symmetry in which of the given figures?

- a) scalene triangle
- b) isosceles right angled triangle
- c) isosceles triangle
- d) right angle triangle
- e) equilateral triangle

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

14. Which of the following are true?

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

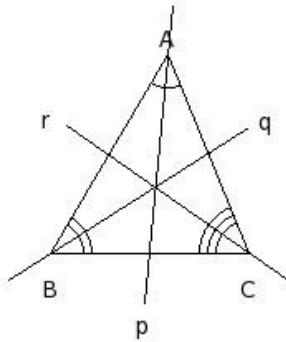
(i) {d,g,a} (ii) {e,c,f} (iii) {d,b} (iv) {a,b,f,g} (v) {c,a}

15. Which of the following figures have infinite lines of symmetry?

- a) sector of a circle
- b) circle
- c) n-sided polygon where n is very large
- d) line segment
- e) semicircle

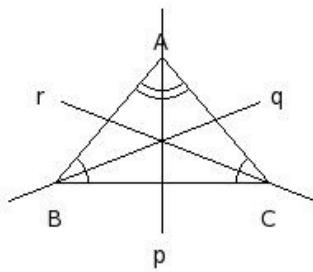
(i) {b} (ii) {d,e,b} (iii) {a,b} (iv) {c,b}

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



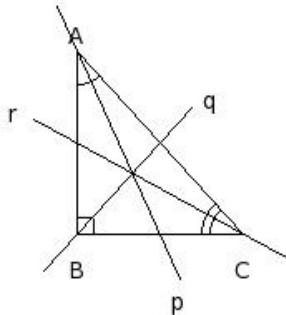
(i) q (ii) { p, q, r } (iii) p (iv) none (v) r

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



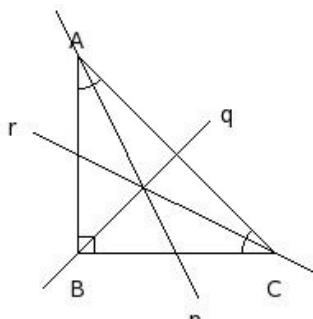
(i) q (ii) none (iii) p (iv) { p, q, r } (v) r

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



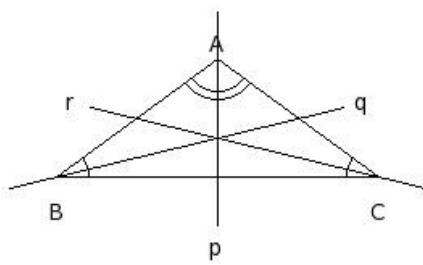
(i) p (ii) r (iii) { p, q, r } (iv) none (v) q

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



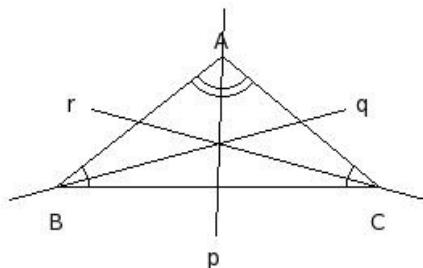
(i) { p, q, r } (ii) p (iii) r (iv) none (v) q

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



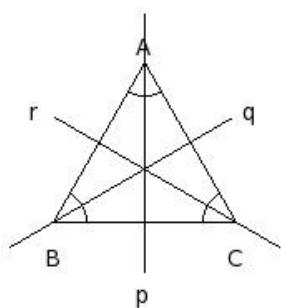
(i) p (ii) { p, q, r } (iii) r (iv) q (v) none

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



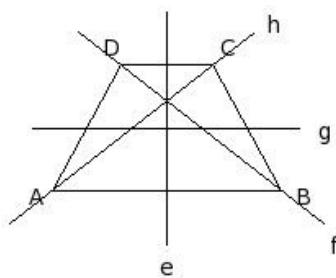
(i) none (ii) r (iii) q (iv) p (v) { p, q, r }

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



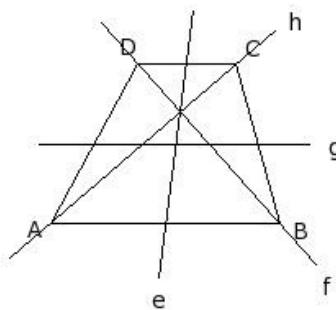
(i) q (ii) r (iii) none (iv) p (v) { p, q, r }

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



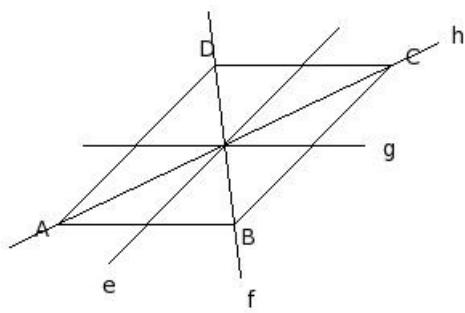
(i) { f, h } (ii) g (iii) none (iv) { e, f, g, h } (v) e

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



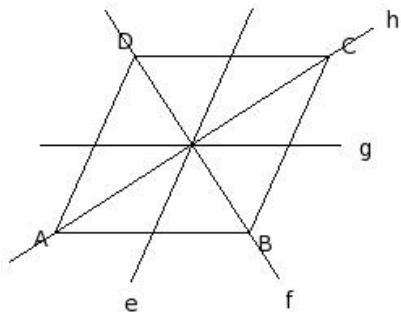
(i) { f, h } (ii) none (iii) f (iv) h (v) g

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



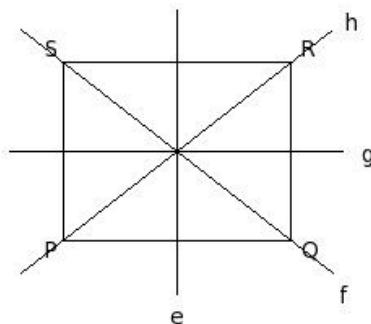
(i) h (ii) none (iii) f (iv) { f, h } (v) e

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



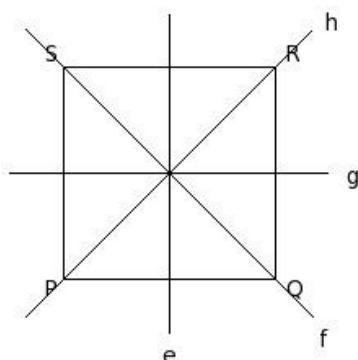
(i) g (ii) f (iii) h (iv) { f, h } (v) { e, g }

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



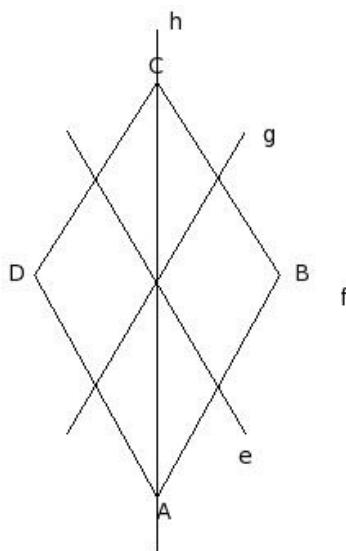
(i) { e, f, g, h } (ii) g (iii) e (iv) { e, g } (v) f

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



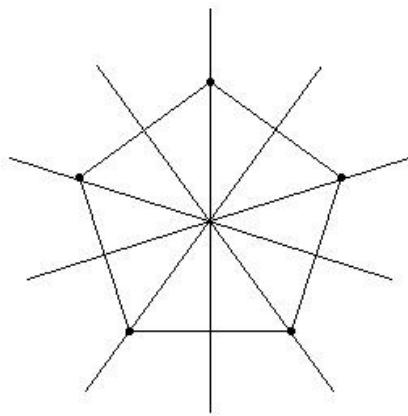
(i) g (ii) none (iii) { e, f, g, h } (iv) { e, g } (v) h

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



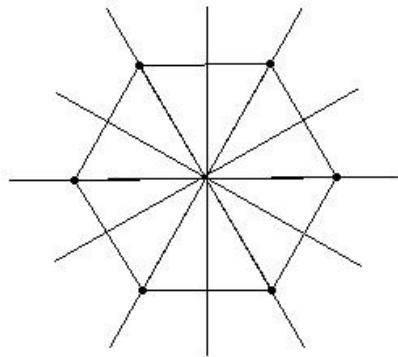
(i) h (ii) { f, h } (iii) { e, f, g, h } (iv) f (v) e

30. Given figure has how many lines of symmetry?



(i) 5 (ii) 4 (iii) 6 (iv) 2 (v) 7

31. Given figure has how many lines of symmetry?



(i) 5 (ii) 8 (iii) 6 (iv) 7 (v) 4

Assignment Key

1) (v)	2) (ii)	3) (iv)	4) (v)	5) (iii)	6) (v)
7) (ii)	8) (ii)	9) (iii)	10) (iv)	11) (iii)	12) (i)
13) (iii)	14) (iv)	15) (i)	16) (iv)	17) (iii)	18) (iv)
19) (v)	20) (i)	21) (i)	22) (v)	23) (v)	24) (ii)
25) (ii)	26) (iv)	27) (iv)	28) (iii)	29) (i)	30) (i)
31) (iii)					