EduSahara™ Assignment

Name : Linear Symmetry

Chapter : Linear Symmetry

Grade : ICSE Grade VI

License : Non Commercial Use

1. The English alphabet letter 'A' has how many lines of symmetry?

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

2. The English alphabet letter 'I' has how many lines of symmetry?

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

3. The English alphabet letter 'F' has how many lines of symmetry?

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

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

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

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

   (i) J (ii) I (iii) H (iv) N (v) B

6. Which of the following English alphabet letters have two lines of symmetry?

   (i) W (ii) H (iii) F (iv) L (v) A

7. Which of the following English alphabet letters have infinite lines of symmetry?

   (i) H (ii) O (iii) D (iv) U (v) X

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

   (i) A (ii) P (iii) H (iv) V (v) I

9. Which of the following figures have no line of symmetry?

   a) equilateral triangle
   b) isosceles triangle
   c) scalene triangle
   d) angle with equal arms
   e) line segment
   f) angle with unequal arms

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

10. Which of the following figures have one line of symmetry?

    a) equilateral triangle
    b) angle with equal arms
    c) isosceles right angled triangle
    d) right angled triangle
    e) isosceles triangle
    f) scalene triangle
    g) angle with unequal arms
    h) line segment

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

11. Which of the following are true?

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

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

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

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

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

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

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

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

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

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

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

15. Which of the following quadrilaterals have zero lines of symmetry?

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

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

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

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

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

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

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

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

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

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

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

19. Which of the following quadrilaterals have four lines of symmetry?

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

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

20. 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) Lines of symmetry of a regular polygon are nothing but the diagonals of a regular polygon.
d) If a quadrilateral has four lines of symmetry, then it is a regular polygon.
e) An n-sided regular polygon has n/2 lines of symmetry if n is even.
f) If a triangle has two lines of symmetry, then it is a regular polygon.
g) Line of symmetry divides the polygon into two identical shapes.

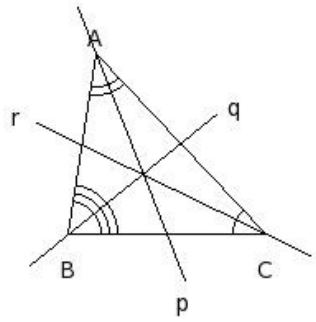
(i) {a,b,d,g} (ii) {e,b} (iii) {e,g,a} (iv) {f,c,d} (v) {c,a}

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

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

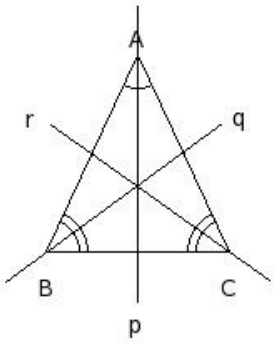
(i) {a,d} (ii) {c,e,d} (iii) {d} (iv) {b,d}

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



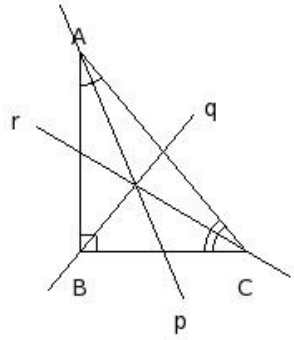
(i) q (ii) r (iii) { p, q, r } (iv) p (v) none

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



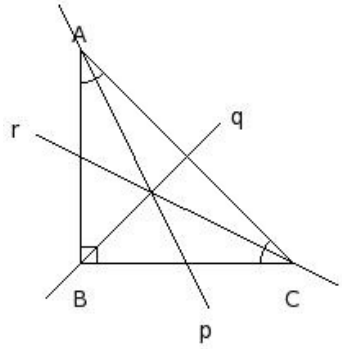
(i) none (ii) p (iii) { p, q, r } (iv) q (v) r

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



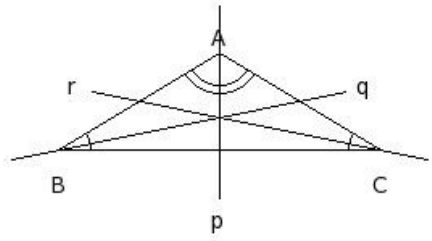
(i) { p, q, r } (ii) r (iii) p (iv) none (v) q

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



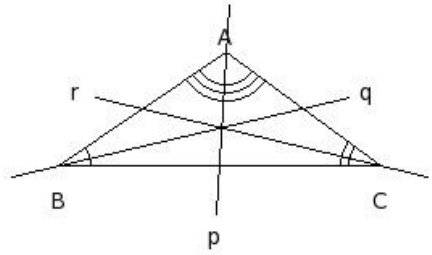
(i) q (ii) { p, q, r } (iii) none (iv) r (v) p

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



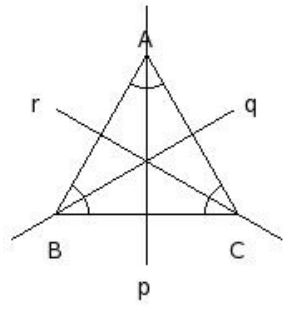
(i) none (ii) p (iii) { p, q, r } (iv) r (v) q

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



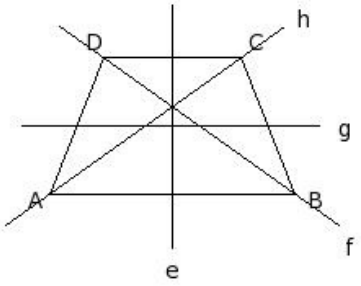
(i) none (ii) q (iii) r (iv) p (v) { p, q, r }

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



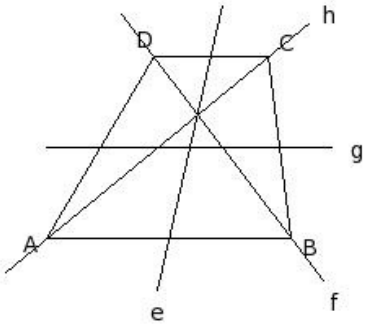
(i) { p, q, r } (ii) r (iii) p (iv) q (v) none

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



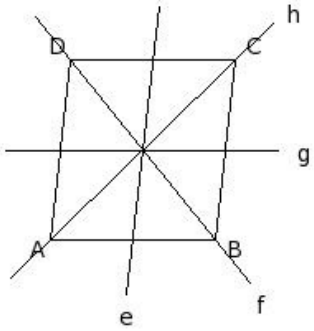
(i) { f, h } (ii) g (iii) { e, g } (iv) h (v) e

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



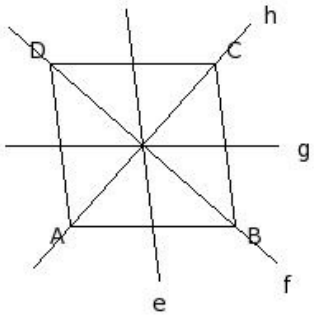
(i) g (ii) { f, h } (iii) none (iv) f (v) e

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



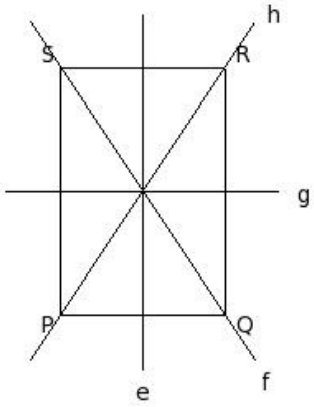
(i) f (ii) { e, g } (iii) none (iv) { e, f, g, h } (v) h

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



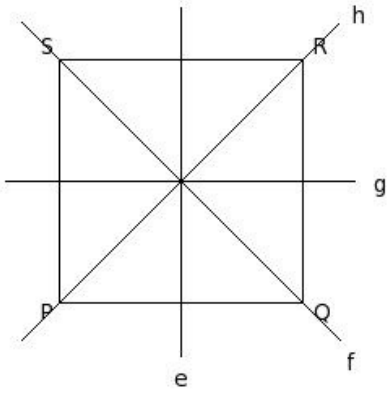
(i) { f, h } (ii) h (iii) e (iv) none (v) f

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



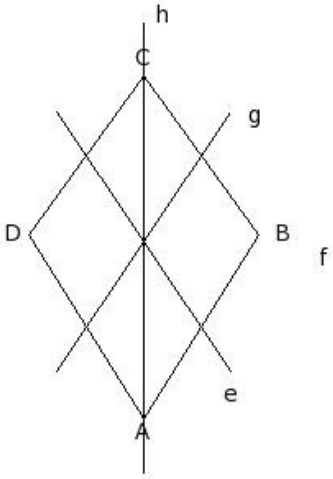
(i) { e, f, g, h } (ii) g (iii) { f, h } (iv) e (v) { e, g }

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



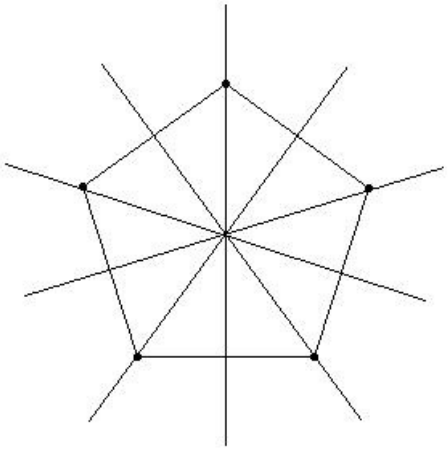
(i) g (ii) h (iii) { f, h } (iv) { e, f, g, h } (v) { e, g }

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



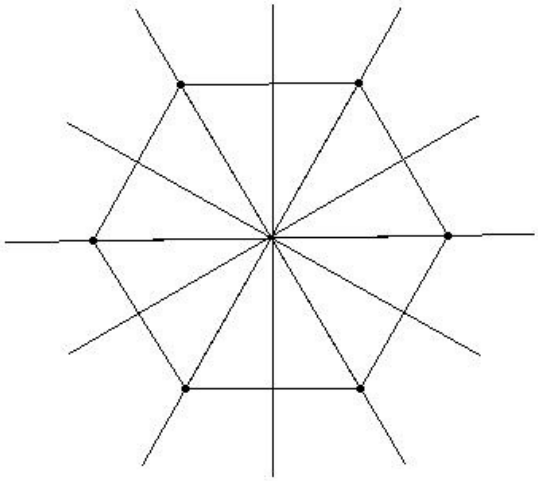
(i) h (ii) g (iii) f (iv) { e, f, g, h } (v) { e, g }

36. Given figure has how many lines of symmetry?



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

37. Given figure has how many lines of symmetry?



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

Assignment Key

1) (v)	2) (iii)	3) (ii)	4) (v)	5) (v)	6) (ii)
7) (ii)	8) (ii)	9) (i)	10) (iv)	11) (i)	12) (v)
13) (v)	14) (ii)	15) (v)	16) (ii)	17) (iii)	18) (iv)
19) (v)	20) (i)	21) (iii)	22) (v)	23) (ii)	24) (iv)
25) (i)	26) (ii)	27) (i)	28) (i)	29) (v)	30) (iii)
31) (iii)	32) (i)	33) (v)	34) (iv)	35) (i)	36) (iv)
37) (iv)					

Copyright © Small Systems Computing Pvt. Ltd.