EduSahara™ Assignment

Name : Symmetry

Chapter : Symmetry

Grade : CBSE Grade VI

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

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

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

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

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

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

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

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

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

   (i) H (ii) L (iii) S (iv) I (v) D

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

   (i) I (ii) F (iii) D (iv) N (v) B

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

   (i) I (ii) X (iii) B (iv) Y (v) N

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

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

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

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

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

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

10. Which of the following are true?

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

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

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

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

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

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

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

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

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

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

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

14. Which of the following are true?

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

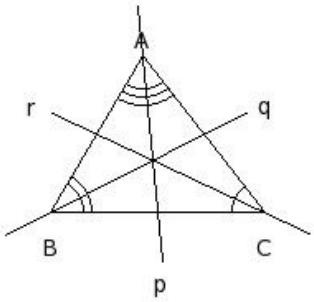
(i) {b,f,c} (ii) {a,c} (iii) {c,d,e,f} (iv) {b,d} (v) {g,a,e}

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

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

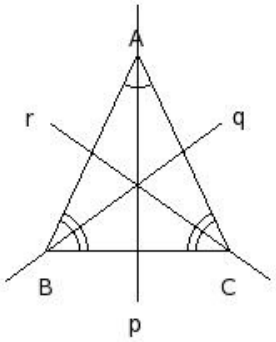
(i) {b,c} (ii) {d,e,c} (iii) {a,c} (iv) {c}

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



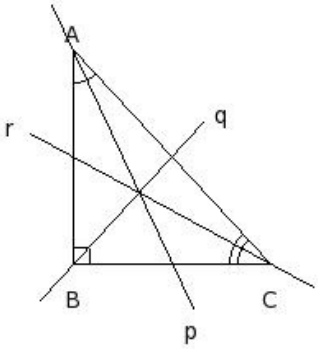
(i) q (ii) { p, q, r } (iii) r (iv) p (v) none

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



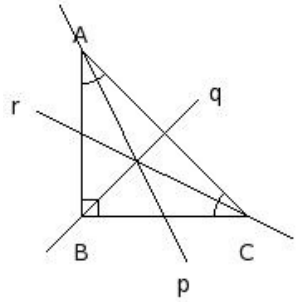
(i) q (ii) none (iii) r (iv) { p, q, r } (v) p

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



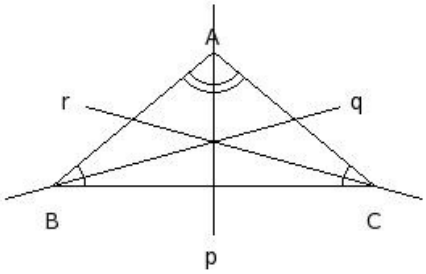
(i) none (ii) r (iii) p (iv) { p, q, r } (v) q

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



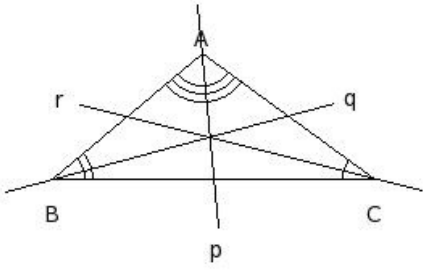
(i) none (ii) r (iii) { p, q, r } (iv) p (v) q

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



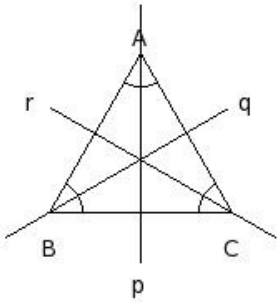
(i) r (ii) { p, q, r } (iii) p (iv) none (v) q

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



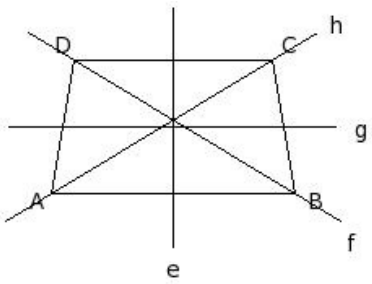
(i) none (ii) q (iii) p (iv) r (v) { p, q, r }

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



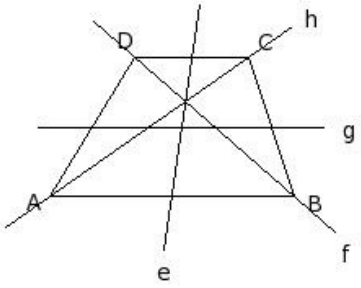
(i) r (ii) q (iii) none (iv) { p, q, r } (v) p

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



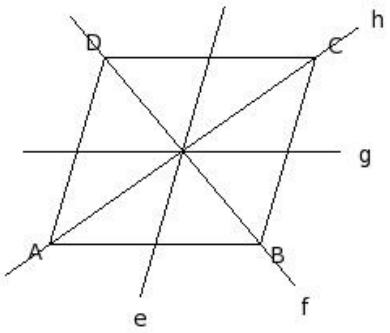
(i) { f, h } (ii) { e, g } (iii) e (iv) { e, f, g, h } (v) g

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



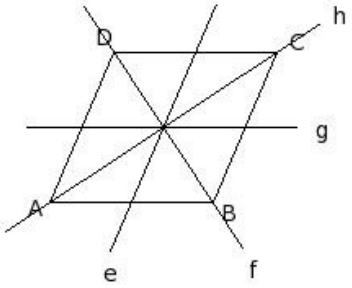
(i) f (ii) { f, h } (iii) h (iv) { e, f, g, h } (v) none

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



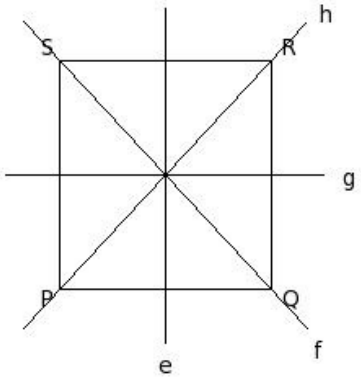
(i) { e, f, g, h } (ii) e (iii) none (iv) h (v) f

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



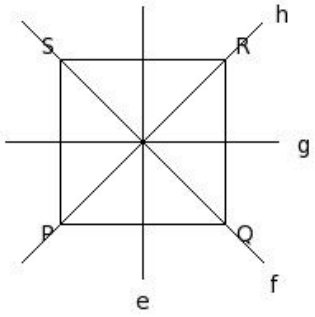
(i) e (ii) { f, h } (iii) { e, f, g, h } (iv) f (v) h

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



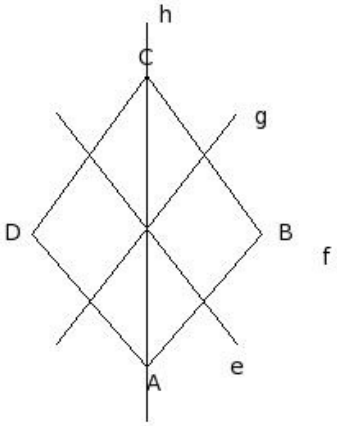
(i) g (ii) f (iii) { e, g } (iv) { f, h } (v) e

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



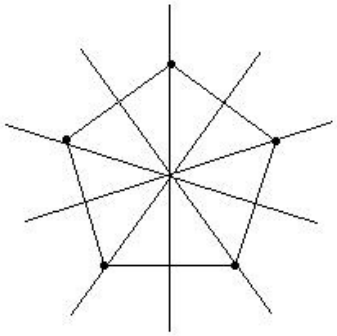
(i) { e, g } (ii) { e, f, g, h } (iii) g (iv) h (v) f

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



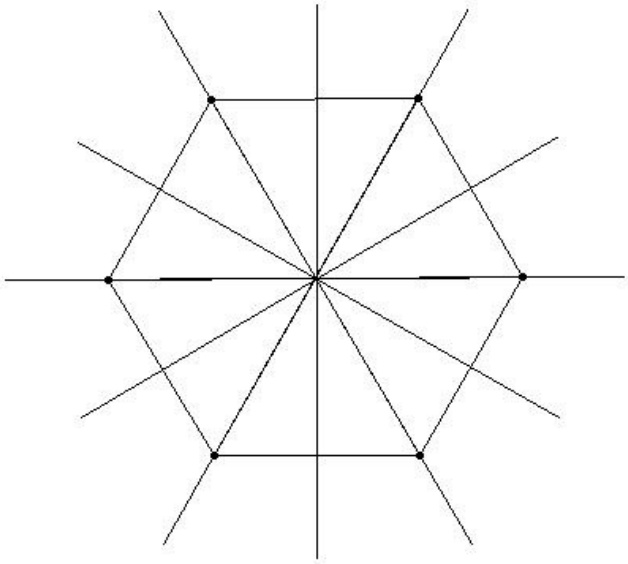
(i) none (ii) e (iii) { e, g } (iv) { e, f, g, h } (v) h

30. Given figure has how many lines of symmetry?



(i) 4 (ii) 2 (iii) 8 (iv) 6 (v) 5

31. Given figure has how many lines of symmetry?



(i) 9 (ii) 5 (iii) 6 (iv) 3 (v) 7

Assignment Key

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