EduSahara™ Assignment

Name : Symmetry

Chapter : Symmetry

Grade : CBSE Grade VI

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

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

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

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

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

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

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

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

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

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

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

   (i) I (ii) Q (iii) S (iv) E (v) A

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

   (i) H (ii) I (iii) G (iv) C (v) E

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

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

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

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

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

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

10. Which of the following are true?

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

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

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

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

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

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

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

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

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

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

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

14. Which of the following are true?

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

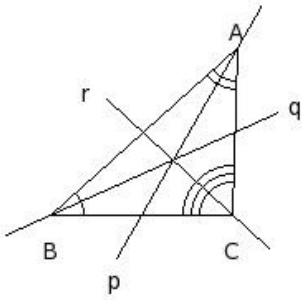
(i) {b,d} (ii) {f,a,e} (iii) {b,g,c} (iv) {c,d,e,g} (v) {a,c}

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

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

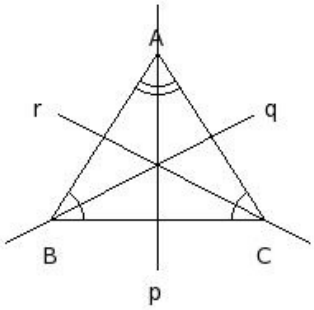
(i) {a} (ii) {b,a} (iii) {d,e,a} (iv) {c,a}

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



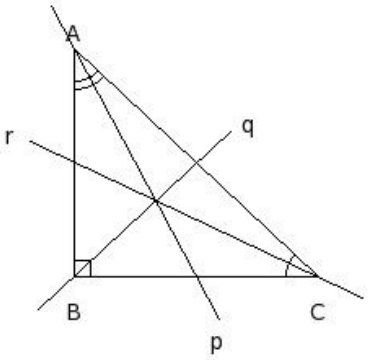
(i) { p, q, r } (ii) none (iii) q (iv) p (v) r

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



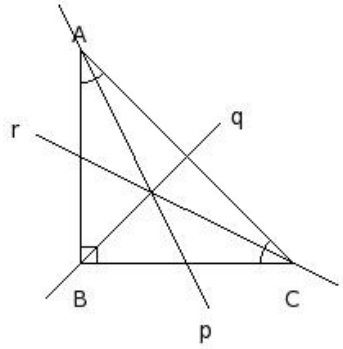
(i) { p, q, r } (ii) r (iii) q (iv) p (v) none

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



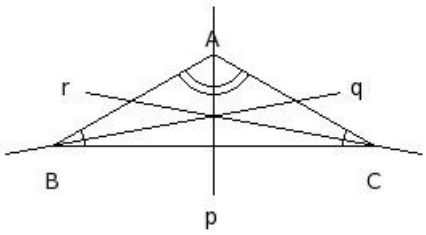
(i) { p, q, r } (ii) p (iii) q (iv) r (v) none

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



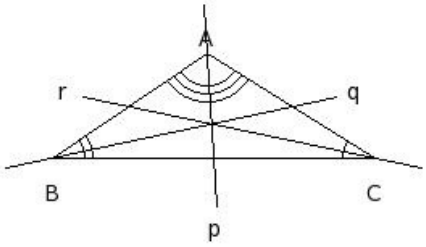
(i) r (ii) none (iii) q (iv) p (v) { p, q, r }

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



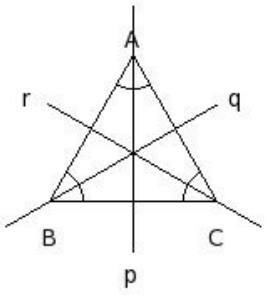
(i) p (ii) r (iii) { p, q, r } (iv) none (v) q

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



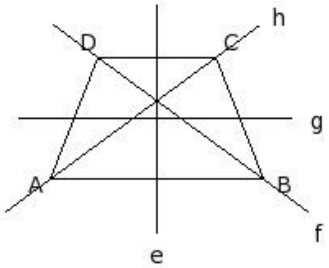
(i) q (ii) { p, q, r } (iii) none (iv) p (v) r

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



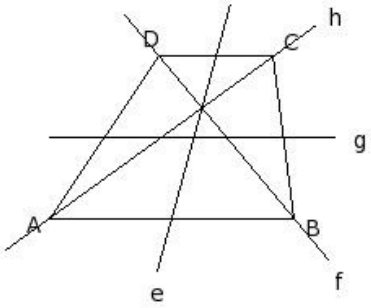
(i) r (ii) q (iii) none (iv) p (v) { p, q, r }

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



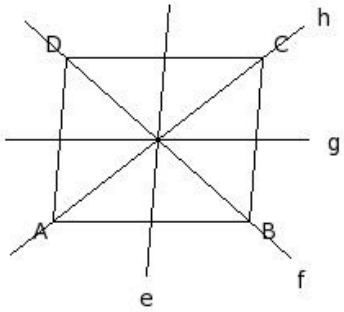
(i) { e, g } (ii) g (iii) e (iv) f (v) { e, f, g, h }

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



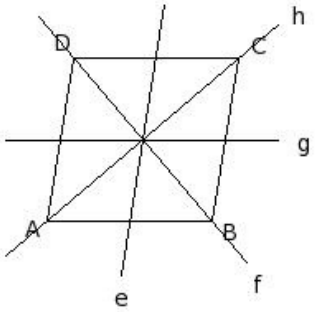
(i) f (ii) { e, f, g, h } (iii) none (iv) { f, h } (v) e

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



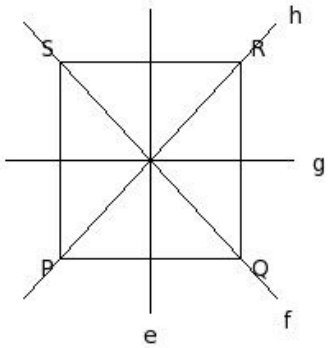
(i) { e, g } (ii) none (iii) h (iv) { f, h } (v) g

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



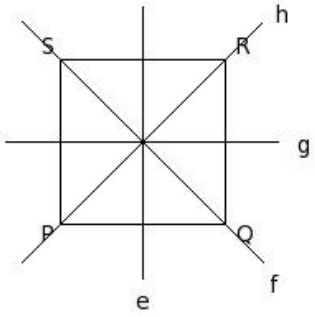
(i) h (ii) { e, g } (iii) { f, h } (iv) none (v) { e, f, g, h }

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



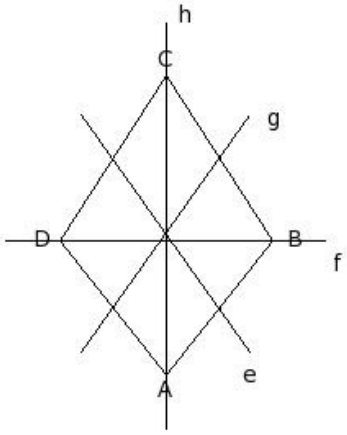
(i) h (ii) { f, h } (iii) e (iv) f (v) { e, g }

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



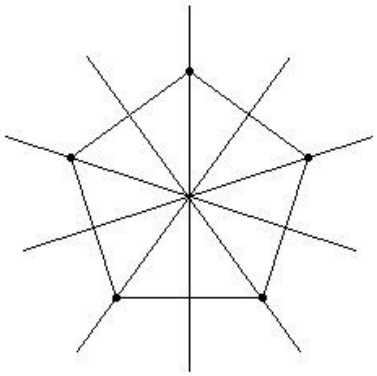
(i) { f, h } (ii) h (iii) { e, f, g, h } (iv) none (v) f

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



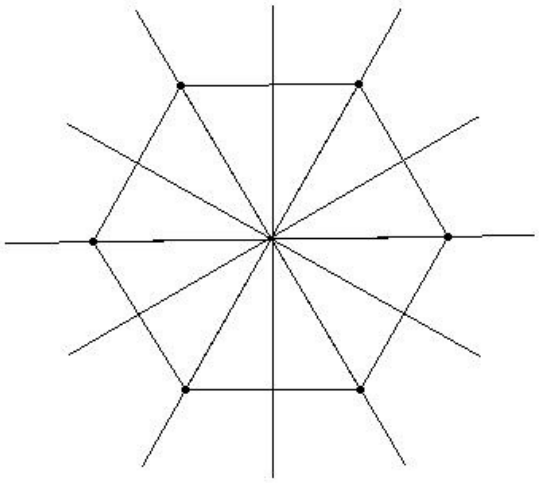
(i) e (ii) { e, g } (iii) g (iv) { f, h } (v) h

30. Given figure has how many lines of symmetry?



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

31. Given figure has how many lines of symmetry?



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

Assignment Key

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