EduSahara™ Assignment

Name : Symmetry

Chapter : Symmetry

Grade : SSC Grade VI

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

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

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

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

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

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

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

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

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

   (i) B (ii) H (iii) F (iv) Z (v) I

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

   (i) I (ii) C (iii) N (iv) U (v) J

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

   (i) A (ii) C (iii) O (iv) H (v) I

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

   (i) C (ii) I (iii) H (iv) J (v) A

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

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

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

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

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

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

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

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

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

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

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

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

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

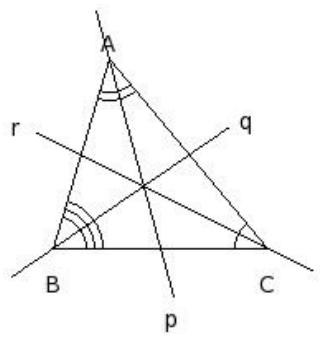
(i) {b,d,e} (ii) {a,c,e} (iii) {b,a,c} (iv) {d,c} (v) {b,a}

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

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

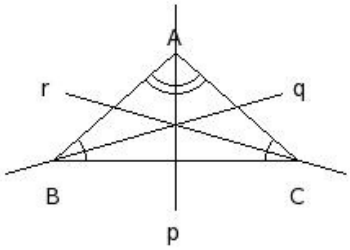
(i) {c,b} (ii) {d,e,b} (iii) {a,b} (iv) {b}

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



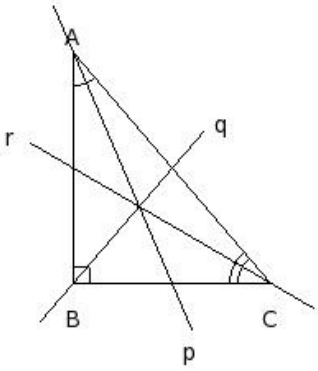
(i) none (ii) { p, q, r } (iii) p (iv) r (v) q

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



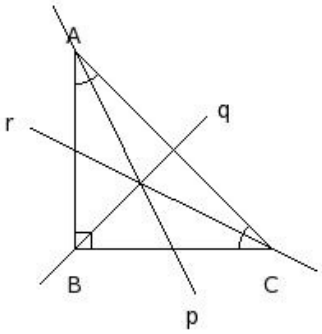
(i) q (ii) none (iii) r (iv) p (v) { p, q, r }

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



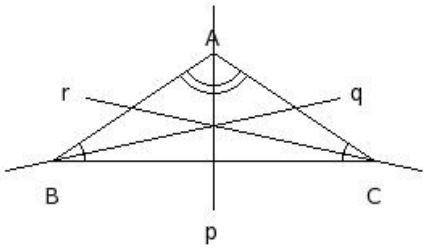
(i) { p, q, r } (ii) r (iii) q (iv) none (v) p

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



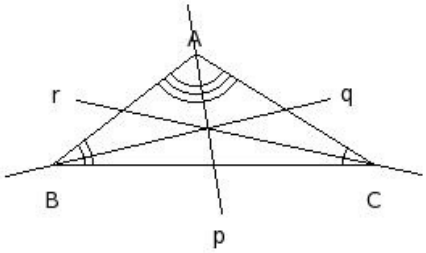
(i) p (ii) { p, q, r } (iii) r (iv) q (v) none

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



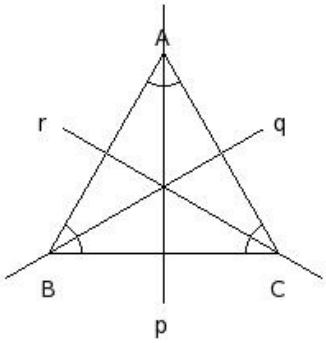
(i) none (ii) p (iii) { p, q, r } (iv) r (v) q

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



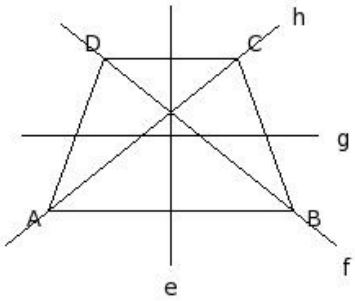
(i) none (ii) r (iii) p (iv) q (v) { p, q, r }

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



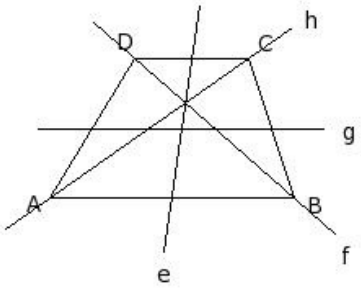
(i) r (ii) q (iii) none (iv) { p, q, r } (v) p

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



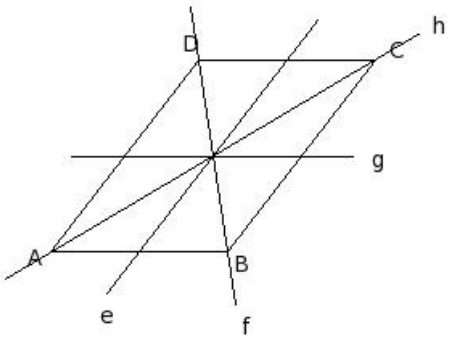
(i) { e, g } (ii) { f, h } (iii) e (iv) f (v) g

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



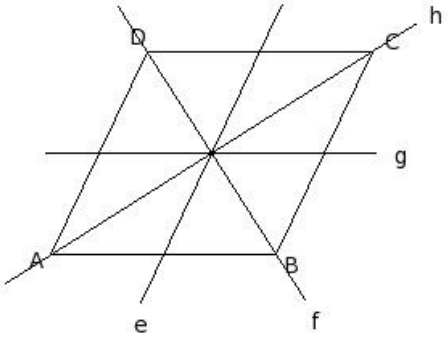
(i) h (ii) g (iii) { e, f, g, h } (iv) none (v) { f, h }

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



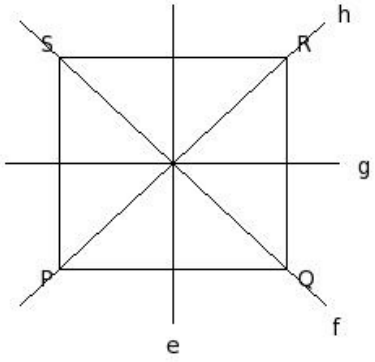
(i) { f, h } (ii) f (iii) { e, g } (iv) { e, f, g, h } (v) none

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



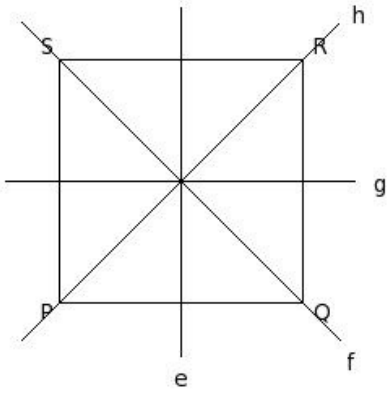
(i) g (ii) e (iii) { e, f, g, h } (iv) { e, g } (v) { f, h }

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



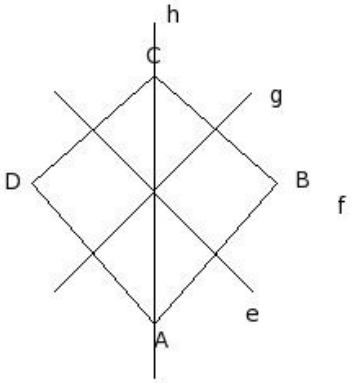
(i) h (ii) g (iii) none (iv) f (v) { e, g }

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



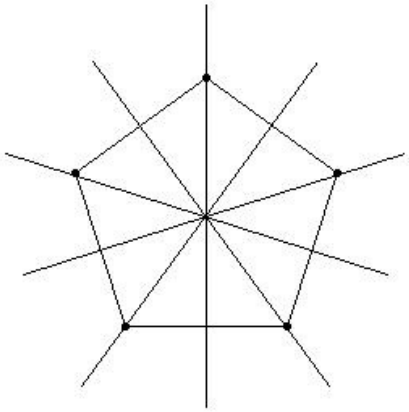
(i) none (ii) { e, g } (iii) { e, f, g, h } (iv) e (v) g

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



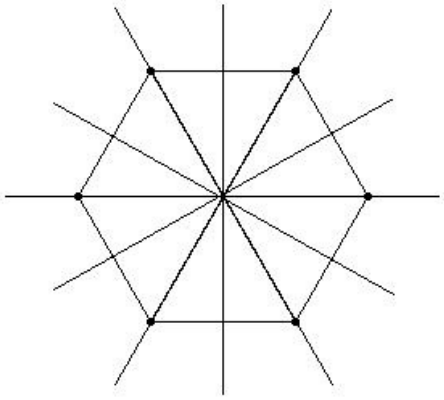
(i) h (ii) g (iii) e (iv) { e, g } (v) none

29. Given figure has how many lines of symmetry?



(i) 6 (ii) 7 (iii) 3 (iv) 4 (v) 5

30. Given figure has how many lines of symmetry?



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

Assignment Key

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