EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Symmetry

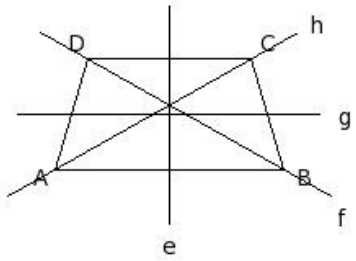
Grade : CBSE Grade VI

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

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

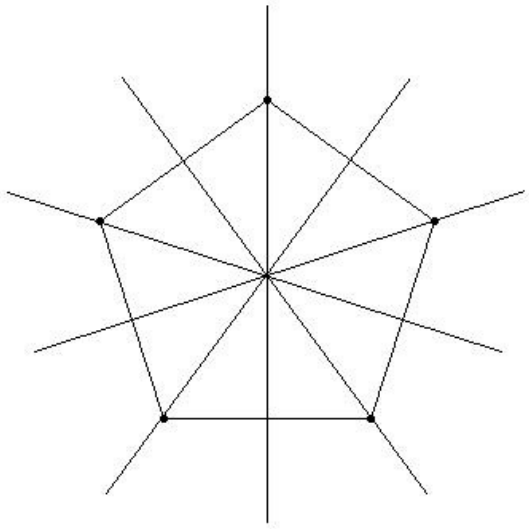
   (i) {g,f,c} (ii) {d,e,c} (iii) {c,f} (iv) {b,f} (v) {a,c}

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



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

3. Given figure has how many lines of symmetry?



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

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

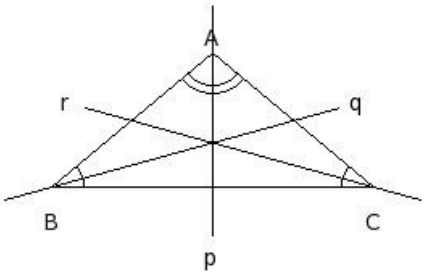
   (i) R (ii) X (iii) C (iv) F (v) H

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

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

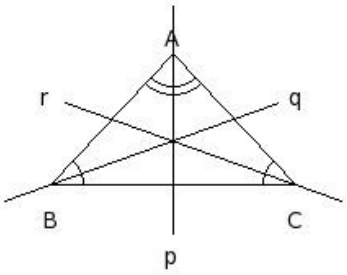
(i) {d,f} (ii) {b,f} (iii) {a,d} (iv) {c,e,d} (v) {a,f,d}

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



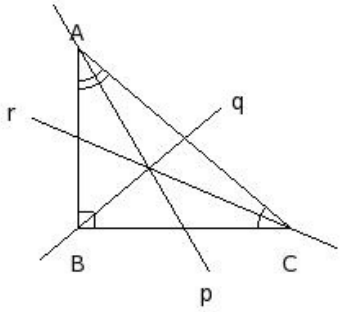
(i) q (ii) { p, q, r } (iii) none (iv) p (v) r

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



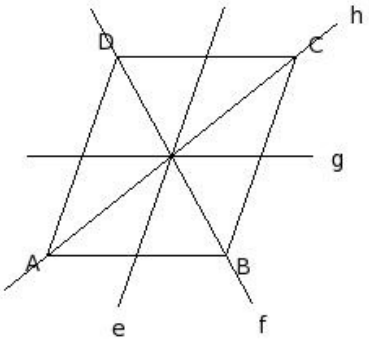
(i) none (ii) q (iii) r (iv) p (v) { p, q, r }

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



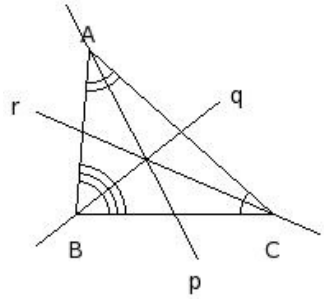
(i) r (ii) p (iii) none (iv) { p, q, r } (v) q

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



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

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

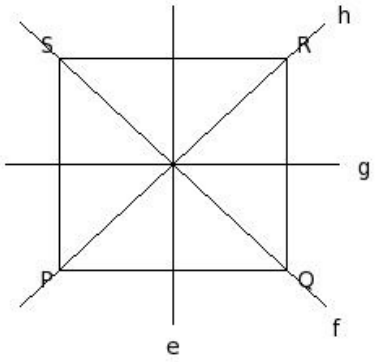


(i) { p, q, r } (ii) p (iii) q (iv) r (v) none

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

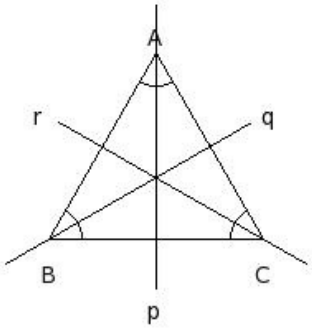
(i) I (ii) C (iii) X (iv) A (v) J

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



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

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

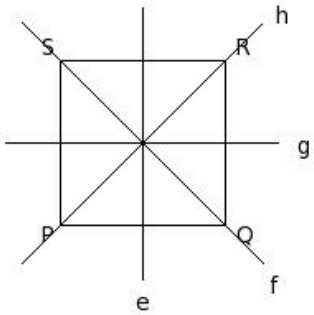


(i) q (ii) { p, q, r } (iii) p (iv) none (v) r

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

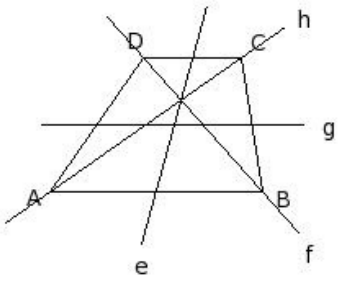
(i) one (ii) zero (iii) three (iv) two (v) infinite

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



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

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



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

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

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

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

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

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

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

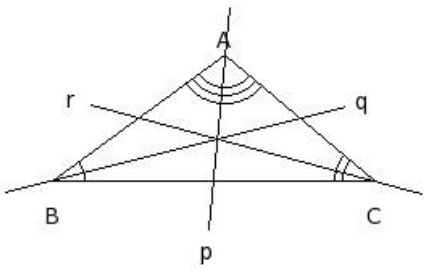
a) right angled triangle
b) isosceles right angled triangle
c) equilateral triangle
d) angle with equal arms
e) angle with unequal arms
f) isosceles triangle
g) scalene triangle
h) line segment

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

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

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

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



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

22. Which of the following are true?

a) A regular polygon of n sides will have n lines of symmetry.
b) If a triangle has two lines of symmetry, then it is a regular polygon.
c) Lines of symmetry of a regular polygon are nothing but the diagonals of a regular polygon.
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) An n-sided regular polygon has n/2 lines of symmetry if n is even.
g) Line of symmetry divides the polygon into two identical shapes.

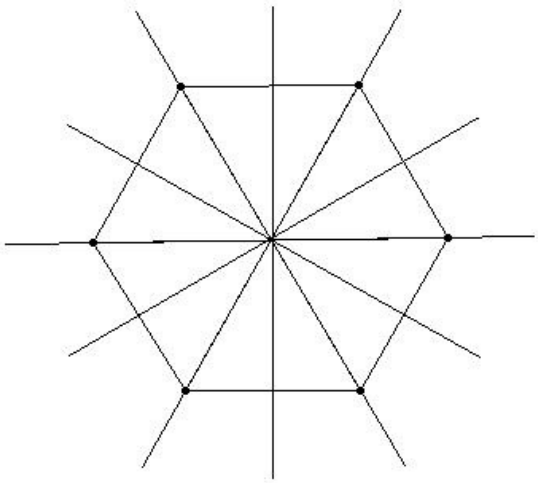
(i) {c,d} (ii) {f,b,e} (iii) {a,d,e,g} (iv) {c,g,a} (v) {b,a}

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

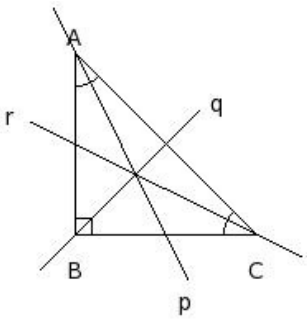
(i) {a,e,f,g} (ii) {b,a} (iii) {c,e} (iv) {b,g,a} (v) {d,h,f}

24. Given figure has how many lines of symmetry?



(i) 3 (ii) 6 (iii) 5 (iv) 7 (v) 8

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



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

Assignment Key

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