EduSahara™ Worksheet

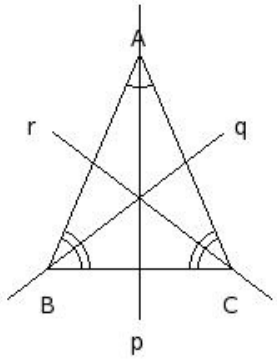
Name : Chapter Based Worksheet

Chapter : Linear Symmetry

Grade : ICSE Grade VI



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



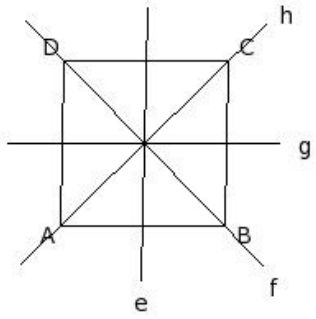

(i) r (ii) p (iii) { p, q, r } (iv) none (v) q

2. 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) isosceles triangle
e) scalene triangle

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

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



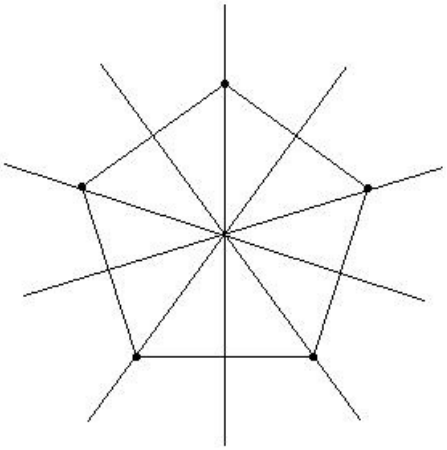

(i) f (ii) { e, g } (iii) h (iv) { f, h } (v) { e, f, g, h }

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

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

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

5. Given figure has how many lines of symmetry?



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

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

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

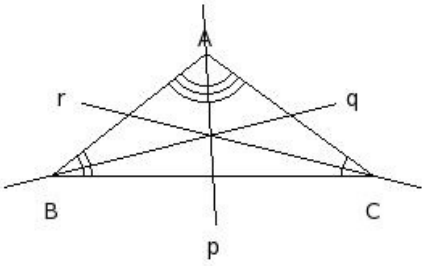
(i) {d,e,c} (ii) {f,c} (iii) {b,c} (iv) {c} (v) {a,c}

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

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

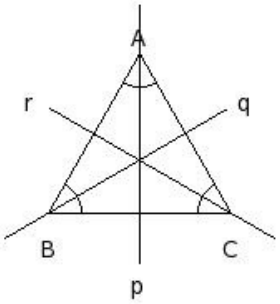
(i) {c,a} (ii) {a} (iii) {d,e,a} (iv) {b,a}

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




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

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



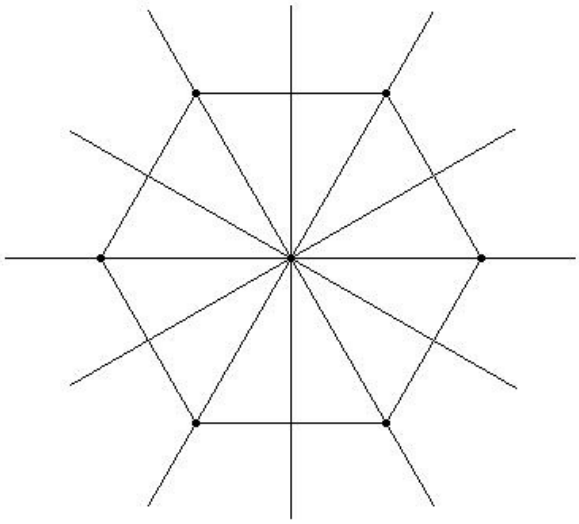

(i) p (ii) { p, q, r } (iii) none (iv) r (v) q

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

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

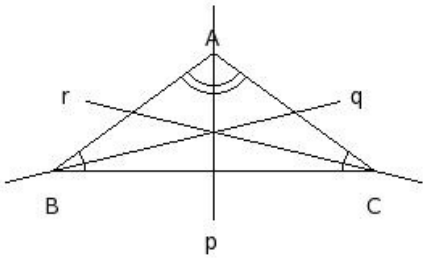
(i) {d,e,b} (ii) {b} (iii) {f,b} (iv) {c,b} (v) {a,b}

11. Given figure has how many lines of symmetry?



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

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




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

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

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

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

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

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

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

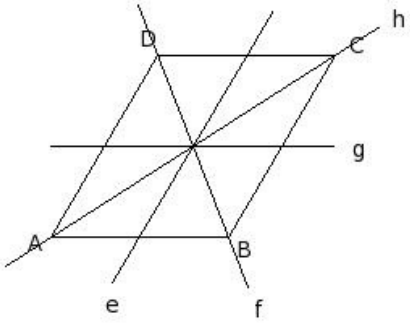
15. The English alphabet letter 'I' has how many lines of symmetry?

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

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

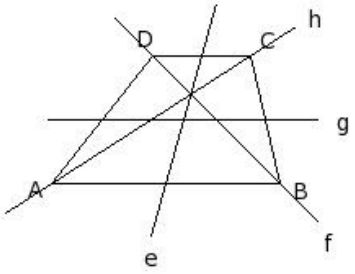
(i) P (ii) L (iii) I (iv) T (v) W

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




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

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




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

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

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

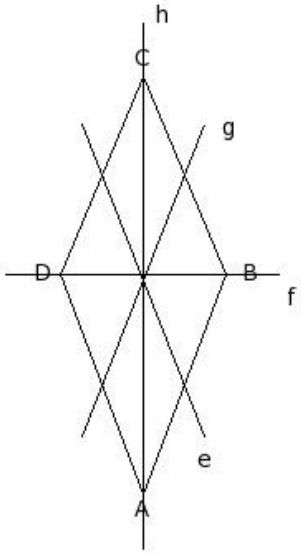
(i) {f,h,b} (ii) {d,e,b} (iii) {c,h} (iv) {b,h} (v) {a,b}

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

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

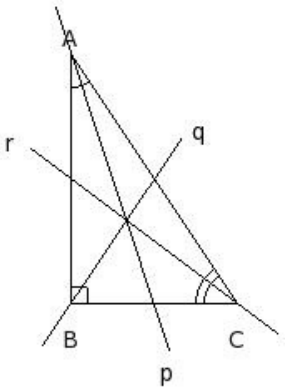
(i) {c,d,h} (ii) {b,d} (iii) {g,c,d} (iv) {a,c} (v) {e,f,h}

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




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

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



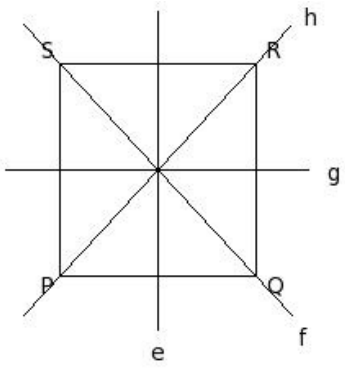

(i) q (ii) r (iii) none (iv) p (v) { p, q, r }

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

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

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




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

25. The English alphabet letter 'M' has how many lines of symmetry?

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

## Assignment Key

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