Name : Symmetry

Chapter : Symmetry
Grade : CBSE Grade VI

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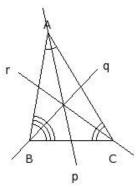
 The English alphabet letter 'M' has how many lines of symmetr

- (i) two (ii) zero (iii) three (iv) one (v) infinite
- 2. The English alphabet letter 'I' has how many lines of symmetry?
 - (i) one (ii) two (iii) infinite (iv) three (v) zero
- 3. The English alphabet letter 'F' has how many lines of symmetry?
 - (i) infinite (ii) two (iii) three (iv) one (v) zero
- 4. The English alphabet letter 'O' has how many lines of symmetry?
 - (i) one (ii) two (iii) zero (iv) three (v) infinite
- 5. Which of the following English alphabet letters have one line of symmetry?
 - (i) A (ii) I (iii) P (iv) N (v) H
- 6. Which of the following English alphabet letters have two lines of symmetry?
 - (i) D (ii) X (iii) Z (iv) N (v) M
- 7. Which of the following English alphabet letters have zero lines of symmetry?
 - (i) H (ii) A (iii) X (iv) C (v) N
- 8. Which of the following figures have no line of symmetry?
 - a) angle with equal arms
 - b) scalene triangle
 - c) line segment
 - d) equilateral triangle
 - e) isosceles triangle
 - f) angle with unequal arms
 - (i) $\{a,b\}$ (ii) $\{b,f\}$ (iii) $\{c,f\}$ (iv) $\{d,e,b\}$ (v) $\{a,f,b\}$
- 9. Which of the following figures have one line of symmetry?
 - a) scalene triangle
 - b) isosceles right angled triangle
 - c) line segment
 - d) angle with unequal arms
 - e) right angled triangle
 - f) angle with equal arms
 - g) equilateral triangle
 - h) isosceles triangle
 - (i) $\{g,b,f\}$ (ii) $\{a,b\}$ (iii) $\{c,f\}$ (iv) $\{d,e,h\}$ (v) $\{b,f,h\}$

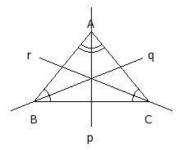
10.	Which of the following are true?						
	a) An obtuse angled triangle has zero lines of symmetry.						
	b) Line of symmetry and axis of symmetry are same.						
	c) For every point on the figure on one side of the axis of symmetry, there is a corresponding point on the other side.						
	d) A line segment has one line of symmetry.						
	e) A figure can be broken into two congruent shapes about its axis of symmetry.						
	f) Line of symmetry is perpendicular to axis of symmetry.						
	g) Axis of symmetry of a figure need not intersect with the figure at any point.						
	h) A figure can have multiple axes of symmetry.						
	(i) {b,c,e,h} (ii) {a,b} (iii) {f,g,e} (iv) {d,c} (v) {a,h,b}						
11.	Which of the following figures have two lines of symmetry?						
	a) rectangle						
	b) square						
	c) isosceles triangle						
	d) angle with equal arms						
	e) scalene triangle						
	f) kite						
	g) line segment						
	h) isosceles trapezium						
	(i) {b,a} (ii) {a,g} (iii) {c,g} (iv) {d,e,a} (v) {f,g,a}						
12.	Which of the following figures have three lines of symmetry?						
	a) scalene triangle						
	b) isosceles right angled triangle						
	c) isosceles triangle						
	d) line segment						
	e) right angle triangle						
	f) equilateral triangle						
	(i) {c,d,f} (ii) {e,f} (iii) {b,f} (iv) {a,f} (v) {f}						
13.	A median is an axis of symmetry in which of the given figures?						
	a) right angle triangle						
	b) equilateral triangle						
	c) isosceles right angled triangle						
	d) isosceles triangle						
	e) scalene triangle						
	(i) {a,e,d} (ii) {b,c,d} (iii) {e,c} (iv) {a,b} (v) {a,b,c}						
14.	Which of the following are true?						
	a) If a polygon is not regular, it will have less number of axes of symmetry than the number of sides.						
	b) Lines of symmetry of a regular polygon are nothing but the diagonals of a regular polygon.						
	c) Line of symmetry divides the polygon into two identical shapes.						
	d) An n-sided regular polygon has n/2 lines of symmetry if n is even.						
	e) If a quadrilateral has four lines of symmetry, then it is a regular polygon.						
	f) If a triangle has two lines of symmetry, then it is a regular polygon.						
	g) A regular polygon of n sides will have n lines of symmetry.						

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

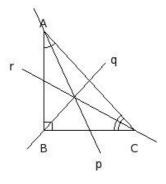
- 15. Which of the following figures have infinite lines of symmetry?
 - a) line segment
 - b) semicircle
 - c) n-sided polygon where n is very large
 - d) circle
 - e) sector of a circle
 - (i) $\{c,e,d\}$ (ii) $\{b,d\}$ (iii) $\{a,d\}$ (iv) $\{d\}$
- 16. Identify the line(s) of symmetry in the following figure



- (i) $\{p,q,r\}$ (ii) q (iii) r (iv) none (v) p
- 17. Identify the line(s) of symmetry in the following figure

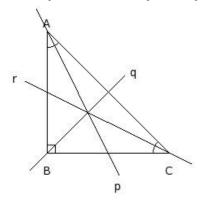


- (i) p (ii) $\{p,q,r\}$ (iii) q (iv) r (v) none
- 18. Identify the line(s) of symmetry in the following figure

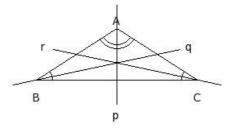


(i) q (ii) none (iii) r (iv) $\{p,q,r\}$ (v) p

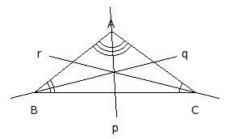
19. Identify the line(s) of symmetry in the following figure



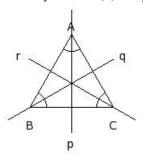
- (i) p (ii) none (iii) $\{p,q,r\}$ (iv) r (v) q
- 20. Identify the line(s) of symmetry in the following figure



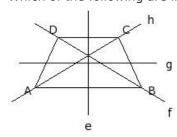
- (i) r (ii) none (iii) q (iv) $\{p,q,r\}$ (v) p
- 21. Identify the line(s) of symmetry in the following figure



- (i) r (ii) q (iii) p (iv) none (v) { p, q, r }
- 22. Identify the line(s) of symmetry in the following figure

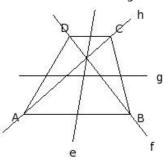


- (i) q (ii) p (iii) r (iv) none (v) $\{p,q,r\}$
- 23. Which of the following are line(s) of symmetry for the given isosceles trapezium?

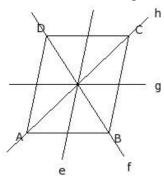


(i) { e, g } (ii) none (iii) h (iv) e (v) { e, f, g, h }

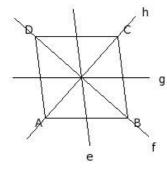
24. Which of the following are line(s) of symmetry for the given trapezium?



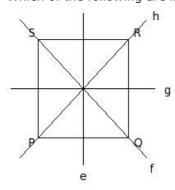
- (i) $\{e, f, g, h\}$ (ii) none (iii) e (iv) f (v) h
- 25. Which of the following are line(s) of symmetry for the given parallelogram?



- (i) g (ii) { e, f, g, h } (iii) e (iv) none (v) { e, g }
- 26. Which of the following are line(s) of symmetry for the given rhombus?

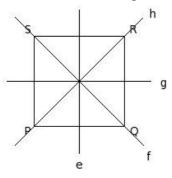


- (i) h (ii) f (iii) g (iv) $\{f, h\}$ (v) e
- 27. Which of the following are line(s) of symmetry for the given rectangle?

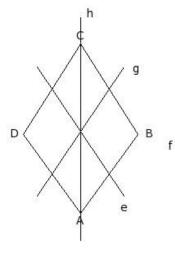


(i) { e, g } (ii) e (iii) f (iv) none (v) { e, f, g, h }

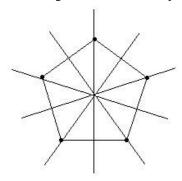
28. Which of the following are line(s) of symmetry for the given square?



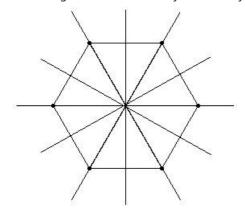
- (i) none (ii) h (iii) $\{e, f, g, h\}$ (iv) $f(v) \{e, g\}$
- 29. Which of the following are line(s) of symmetry for the given kite?



- (i) h (ii) f (iii) $\{e,g\}$ (iv) e (v) g
- 30. Given figure has how many lines of symmetry?



- (i) 3 (ii) 4 (iii) 8 (iv) 5 (v) 6
- 31. Given figure has how many lines of symmetry?



(i) 4 (ii) 6 (iii) 7 (iv) 9 (v) 5

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

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