EduSahara™ Learning Center Assignment

Grade : Class VI, SSC
Chapter : Symmetry
Name : Symmetry
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1. The English alphabet letter 'D' has how many lines of symmetry?

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

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

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

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

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

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

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

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

   (i) I (ii) H (iii) S (iv) L (v) C

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

   (i) B (ii) J (iii) X (iv) E (v) R

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

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

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

   (i) D (ii) A (iii) P (iv) H (v) X

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

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

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

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

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

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

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11. Which of the following are true ?

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

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

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

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

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

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

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

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

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

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

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

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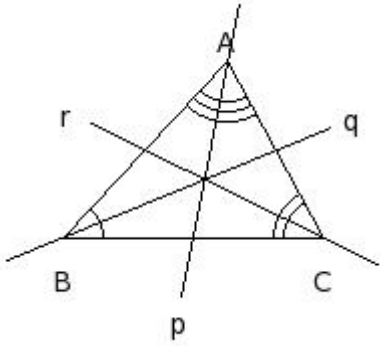
15. Identify the line(s) of symmetry in the following figure



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

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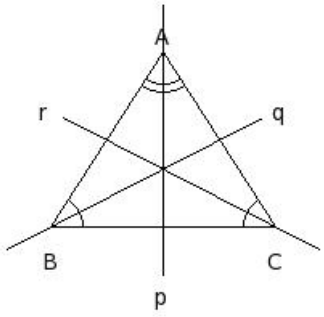
16. Identify the line(s) of symmetry in the following figure



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

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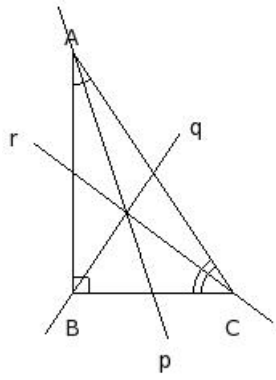
17. Identify the line(s) of symmetry in the following figure



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

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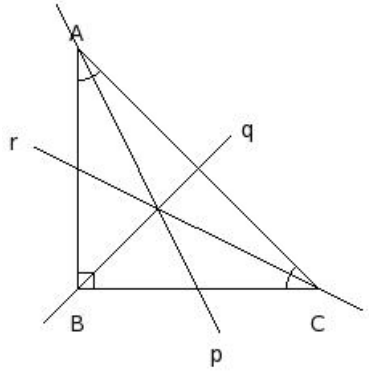
18. Identify the line(s) of symmetry in the following figure



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

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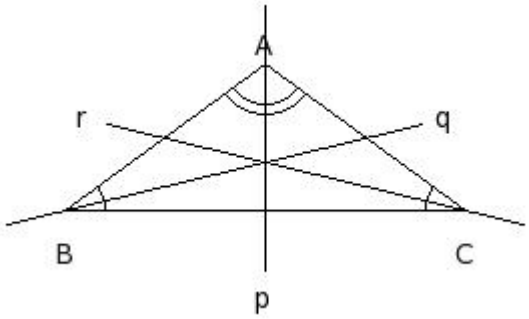
19. Identify the line(s) of symmetry in the following figure



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

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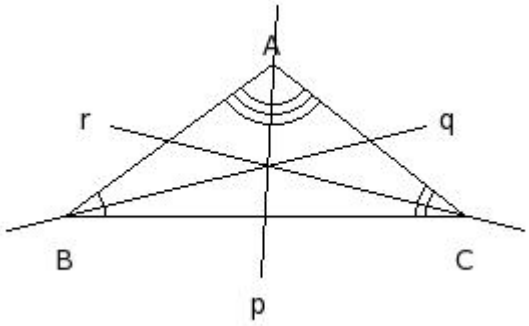
20. Identify the line(s) of symmetry in the following figure



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

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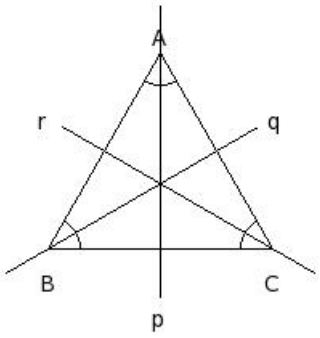
21. Identify the line(s) of symmetry in the following figure



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

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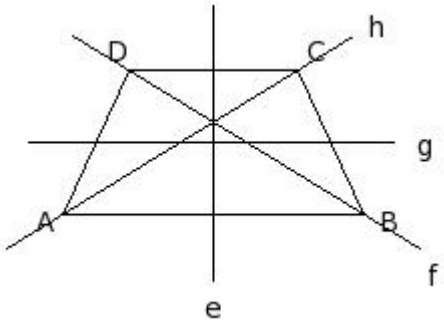
22. Which of the following are line(s) of symmetry for the given isosceles trapezium ?



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

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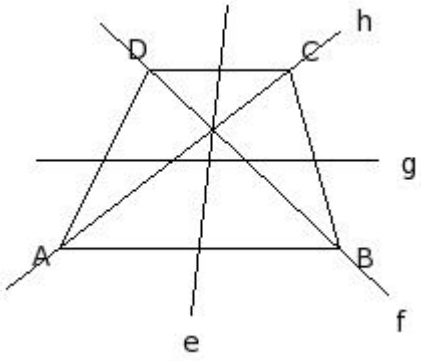
23. Which of the following are line(s) of symmetry for the given trapezium ?



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

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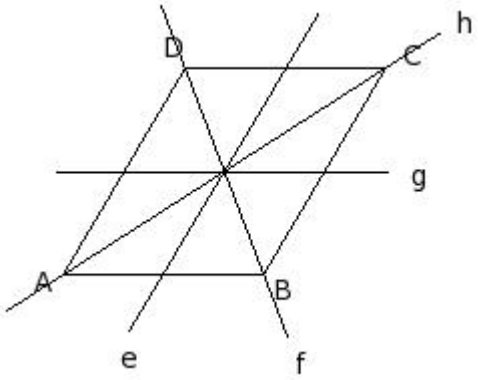
24. Which of the following are line(s) of symmetry for the given parallelogram ?



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

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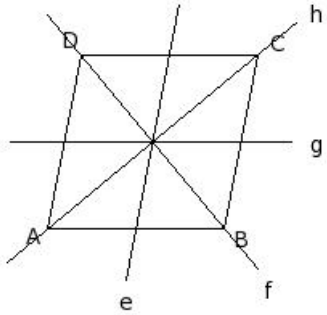
25. Which of the following are line(s) of symmetry for the given rhombus ?



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

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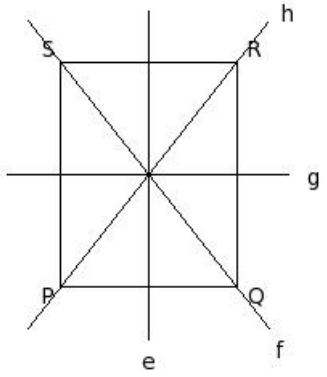
26. Which of the following are line(s) of symmetry for the given rectangle ?



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

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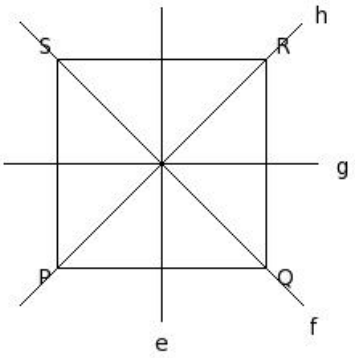
27. Which of the following are line(s) of symmetry for the given square ?



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

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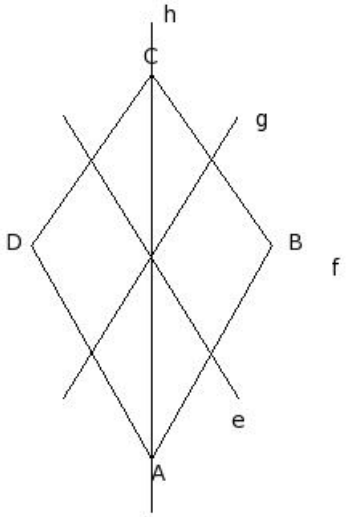
28. Which of the following are line(s) of symmetry for the given kite ?



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

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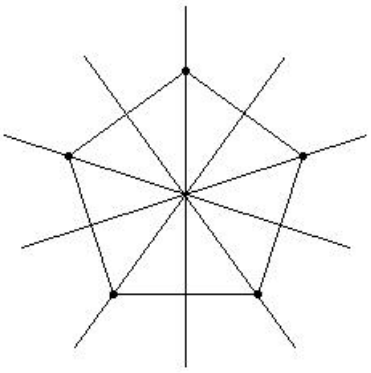
29. Given figure has how many lines of symmetry?



(i) 3 (ii) 6 (iii) 4 (iv) 5 (v) 8

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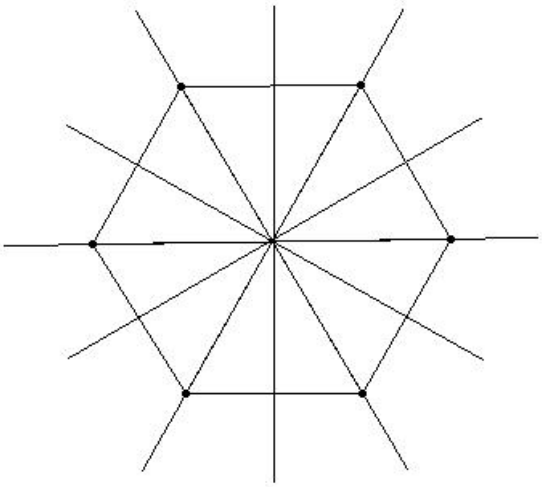
30. Given figure has how many lines of symmetry?



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

Assignment Key

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