



MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

TWO-DIMENSIONAL REFLECTION SYMMETRY (LINEAR SYMMETRY)

Examble

1. A line segment is symmetrical about its perpendicular bisector. true or false ?



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2. A given angle having equal arms is symmetrical about the bisector of the angle.
true or false ?



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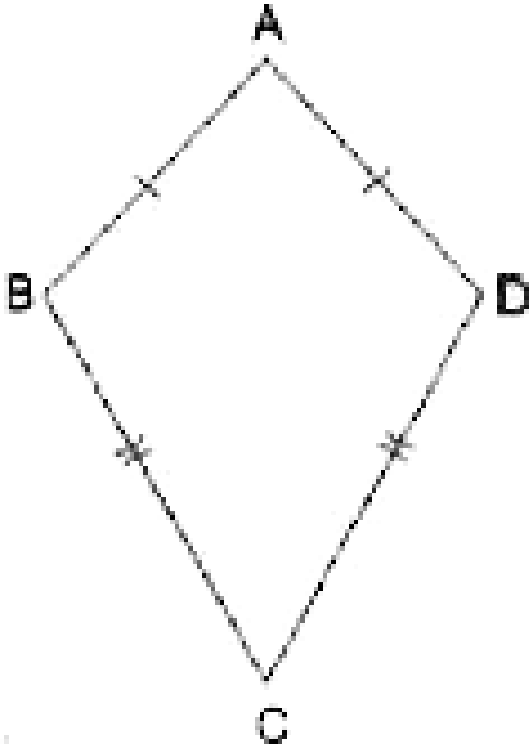
3. An isosceles triangle is symmetrical about the bisector of the angle included between the equal sides. true or false?



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4. ABCD is a kite in which $AB=AD$ and $BC=DC$.

The kite is symmetrical about



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5. A semicircle ACB has one line of symmetry, namely the perpendicular bisector of diameter AB . true or false?



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6. An Isosceles trapezium has one line of symmetry, namely the line joining the midpoints of the base of the trapezium. true or false?



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7. A rectangle has two lines of symmetry. Each one of which being the line joining the

midpoints of opposite sides. true or false?



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8. A rhombus is symmetrical about each one of its diagonals. true or false?



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9. A square has four lines of symmetry. Namely. The diagonals and the lines joining the midpoints of its opposite sides. true or false?

A. True

B. false

C. can not be said anything

D. none of these

Answer: A



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10. An equilateral triangle is symmetrical about each one of the bisectors of its interior angles. true or false ?



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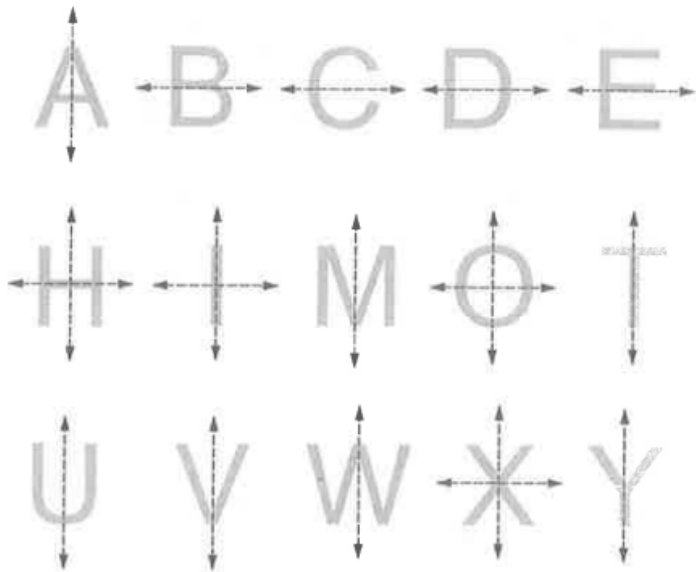
11. A circle is symmetrical about each of the diameters. Thus, each diameter of a circle is an axis of symmetry. true or false ?



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12. Each of the following capital letters of the English alphabet is symmetrical about the

dotted line or lines as shown.



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Exercise

1. A square has how many lines of symmetry

- A. one line of symmetry
- B. two lines of symmetry
- C. three lines of symmetry
- D. four lines of symmetry

Answer: D



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2. A rectangle is symmetrical about

- A. each one of its sides

B. each one of its diagonals

C. a line joining the midpoints of its
opposite sides

D. none of these

Answer: C



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3. A rhombus is symmetrical about

- A. the line joining the midpoints of its opposite sides
- B. each of its diagonals
- C. perpendicular bisector of each of its sides
- D. none of these

Answer: B



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4. A circle has how many lines of symmetry

A. no line symmetry

B. one line symmetry

C. two line symmetry

D. an unlimited number of lines of symmetry

Answer: D



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5. A scalene triangle has how many line of symmetry

- A. no line of symmetry
- B. one line symmetry
- C. two line symmetry
- D. three lines of symmetry

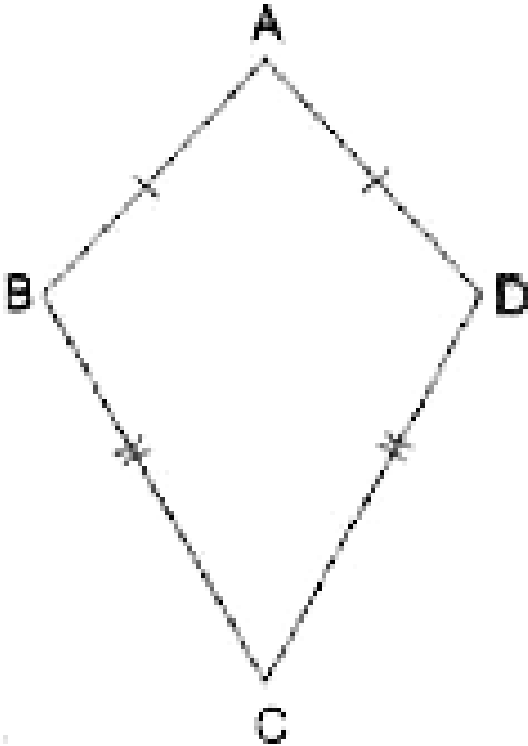
Answer: A



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6. ABCD is a kite in which $AB=AD$ and $BC=DC$.

The kite is symmetrical about



A. the diagonal AC

B. the diagonal BD

C. none of these

D. both (a) and (d)

Answer: A



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7. the letter O of the English alphabet has how many lines of symmetry

A. no line of symmetry

B. one line symmetry

C. two line symmetry

D. none of these

Answer: C



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8. The letter Z of the English alphabet has how many lines of symmetry

A. no line of symmetry

B. one line symmetry

C. two line symmetry

D. none of these

Answer: A



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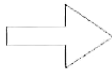
9. Draw of the line (or lines) of symmetry of each of the following figures.



(i)



(ii)



(iii)



(iv)



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10. Which of the following statements are true and which are false ?

(i) A parallelogram has no line of symmetry.

(ii) An angle with equal arms has its bisector as the line of symmetry

(iii) An equilateral triangle has three lines of symmetry.

(iv) A rhombus has four lines of symmetry.

(v) a square has four lines of symmetry.

(vi) A rectangle has two lines of symmetry.

(vii) Each one of the letters H,I,O,X of the English alphabet has two lines of symmetry.



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