MATHS

BOOKS - HT Olympiad Previous Year Paper

SYMMETRY

Mathematical Reasoning

1. How many minimum number of squares that must be shaded to make the given figure
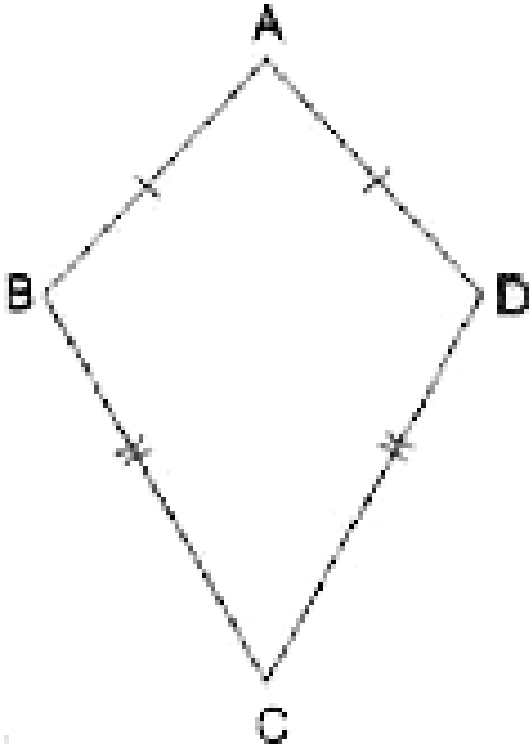
symmetric?

A. 1

B. 2

C. 3

D. 4

Answer: B

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

The kite is symmetrical about

A. Diagonal AC

B. Diagonal BD

C. Side AB

D. Side BC

Answer: A

3. Which of the following has as many lines of symmetry as the number of sides?

A. Square

B. Rectangle

C. Scalene triangle

D. Kite

Answer: A

4. Select the correct option.

Shapes	Line(s) of symmetry
(A) ☆	1
(B) ⬆	4
(C) ✚	5
(D) ○	Infinite

5. An isosceles triangle has _____ line (s) of symmetry.

A. 0

B. 1

C. 2

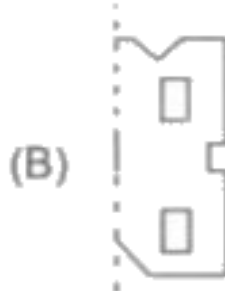D. 3

Answer: B

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6. Idetify the corresponding half of the given figure, if dotted line is the line of symmetry.

(A)

(B)

(C)

(D)

7. How many of the following letters have no line of symmetry?
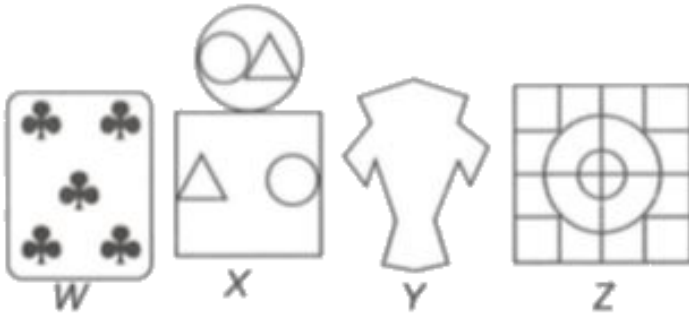
FINGERS

A. 3

B. 4

C. 5

D. 6

Answer: C

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8. Which of the following figures have at least

one line of symmetry?

A. Only X

B. Only W and Z
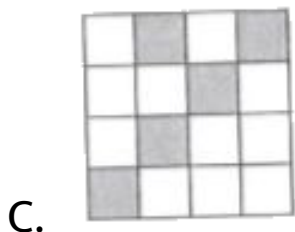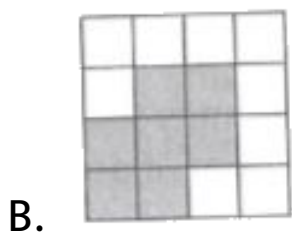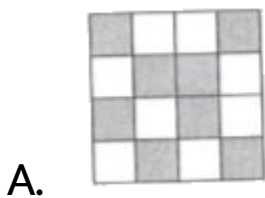
C. Only W, Y and Z

D. W,X,Y and Z

Answer: C

9. A rhombus is symmetrical about

A. The line joining the midpoints of its

opposite sides

B. Each of its diagonals

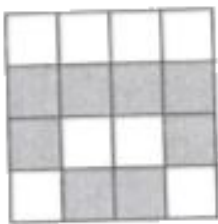C. Perpendicular bisector of each of is sides

D. None of these

Answer: B

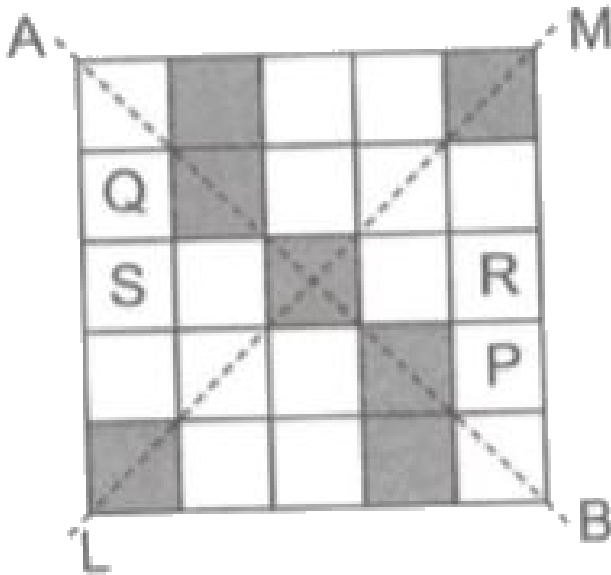**10.** Which of the following is not a symmetrical

figure?

A.

B.

C.

D.

Answer: C

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11. Which of the following square(s) must be shaded so that the given figure is symmetric

along both LM and AB?
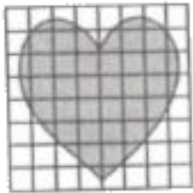

A. R and S
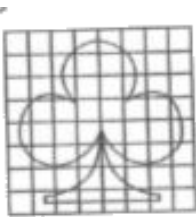
B. P only

C. Q and P

D. Q only

Answer: C

12. Which of the following figures has more than one line of symmetry?
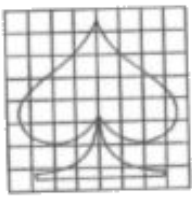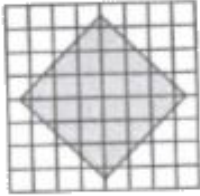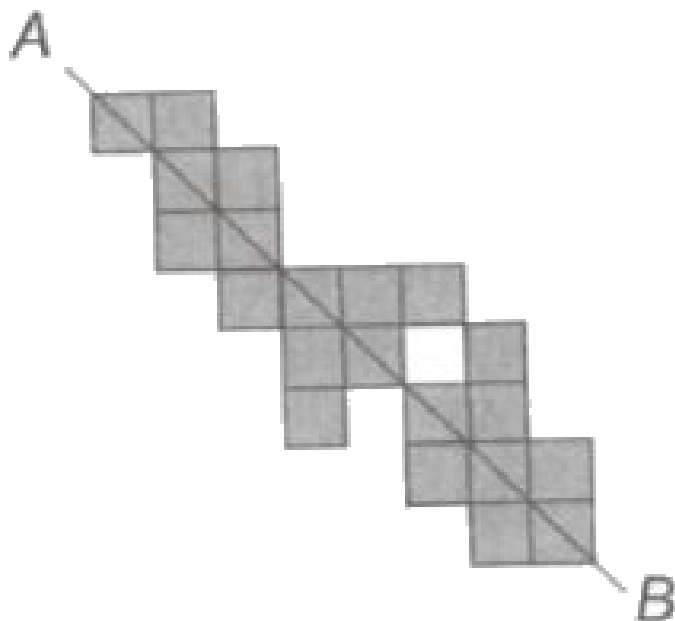
A.

B.

C.

D.

Answer: D

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13. What is the smallest number of squares that must be added so that the line AB

becomes the line of symmetry?

A

B

A. 1

B. 2

C. 3

D. 4

Answer: C

14. How many lines of symmetry are there in a triangle which has all the angles equal ?

A. 1

B. 2

C. 3

D. 4

Answer: C

15. Which squares must be shaded so that the figure has a line of symmetry?

A. I

B. II

C. III

D. IV

Answer: D

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