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MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

SYMMETRY

Others

1. Following letters of English alphabet are symmetrical about a line. Identify, a line of

symmetry in each case: (i)A (ii)B (iii)C (iv)D (v) E

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2. Each of the following letters from English alphabet has two lines of symmetry. Identify lines of symmetry in each case: (i)

H (ii) I

(iii) O

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3. State the number of lines of symmetry for the following figures: (i) An equilateral triangle (ii) An isosceles triangle

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4. State the number of lines of symmetry for the following figures: (i) A scalene triangle (ii) A rectangle

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5. State the number of lines of symmetry for the following figures: (i) A rhombus (ii) A square

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6. State the number of lines of symmetry for the following figures: (i) A parallelogram (ii) A quadrilateral

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7. State the number of lines of symmetry for the following figures: (i) A regular pentagon (ii) A regular hexagon

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8. State the number of lines of symmetry for the following figures: (i) A circle (ii) A semi-circle

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9. What other name can give to the line of symmetry of (i) An isosceles triangle? (ii) A circle?

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10. Fill in the blanks: English alphabet Letter, Line Symmetry, Number of Lines of symmetry, Rotational Symmetry, Order of rotational Symmetry Z S H O E N C, Nil - Yes Yes Yes - -, 0 - - - - - -, Yes - Yes Yes - Yes -, 2 - - - - - -

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11. Identify multiple lines of symmetry, if any, in each of the following figures:

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12. In the following figures, the mirror line (i.e. the line of symmetry) is given as dotted line. Complete each figure performing in the dotted (mirror) line. Also, try to recall the name of the complete figure.

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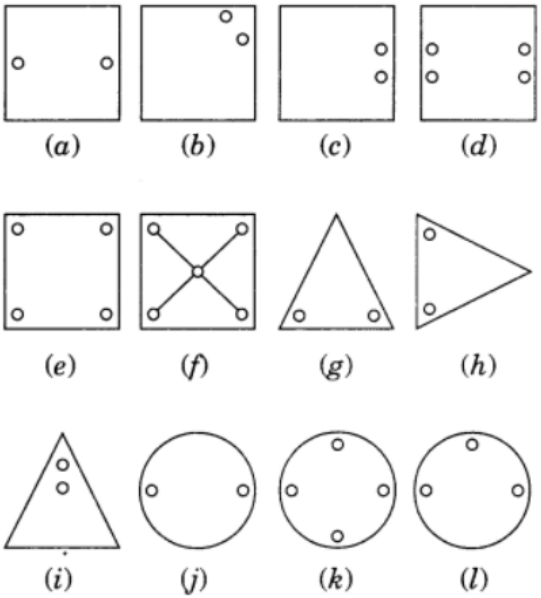
13. Copy the figures with punched holes and find the axes of symmetry for the following:



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14. Given the line(s) of symmetry, find the other hole(s):

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15. Discuss the rotational symmetry and line symmetry of an equilateral triangle.

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16. Discuss the rotational symmetry of a square. Also, determine its lines of symmetry.

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17. Discuss the rotational and line symmetry of a rectangle.

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18. Show that each of the letters H, I, N, S, X and Z has a rotational symmetry of order 2. Also, mark the point of rotational symmetry in each case.

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19. Discuss the rotational and line symmetry of a circle.

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20. Discuss the rotational symmetry of a parallelogram. Also, find the centre of rotation, if any.

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21. Discuss the rotational and line symmetry of the following figure.

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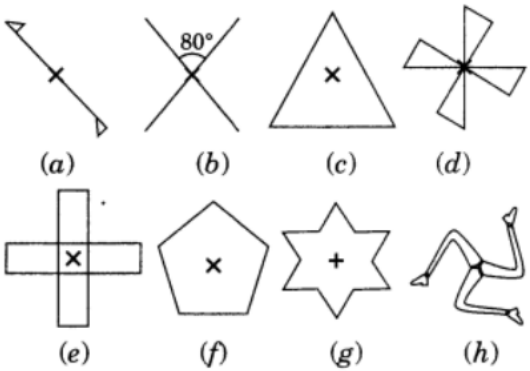
22. Give the order of rotational symmetry for each figure:



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23. Name any two figures that have both line symmetry and rotational symmetry.

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24. Give an example of a figure that has a line of symmetry but does not have rotational symmetry.

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25. Give an example of a geometrical figure which has neither a line of symmetry nor a rotational symmetry.

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26. Give an example of a letter of the English alphabet which has (i) No line of symmetry (ii) Rotational symmetry of order 2.

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27. What is the line of symmetry of a semi-circle? Does it have rotational symmetry?

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28. Draw a rough sketch of a triangle with both line and rotational symmetries.

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29. Fill in the blanks: Figures, Centre of rotation, Order of rotation, Angle of rotation Square, , , Rectangle, , , Rhombus, , , Equilateral triangle, , , Regular hexagon, , , Circle, , , Semi-circle, , ,

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30. Give three examples of shapes with no line of symmetry.

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31. Which of the following has only 2 lines of symmetry?

A. Equilateral triangle

B. Rhombus

C. Circle

D. None of these

Answer: B

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32. Which of the following is/are point symmetric? (a) Rectangle (b) Square (c) Parallelogram (d) All of these

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33. Which of the following has an infinite number of lines of symmetry? (a) Equilateral triangle (b) Isosceles triangle (c) Regular hexagon (d) Circle

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34. Which of the following is point symmetric?

(a) Equilateral triangle (b) Trapezium

(c) Rectangle (d) None of these

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35. The number of lines of symmetry of a square is (a) 2 (b) 3 (c) 4 (d) Infinite

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36. The number of lines of symmetry of a rectangle is (a) 2 (b) 3 (c) 4 (d) 1

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37. The number of lines of symmetry of an equilateral triangle is (a) 1 (b) 2 (c) 3 (d) 0

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38. The order of rotational symmetry of an equilateral triangle is

A. 0

B. 1

C. 2

D. 3

Answer: D

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39. The rectangle has rotational symmetry of order (a) 1 (b) 2 (c) 3 (d) 4

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40. The number of lines of symmetry of an isosceles triangle is (a) 0 (b) 1 (c) 2 (d) 3

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