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EXERCISE 14.1 - Question No. 1

Copy the figures with punched holes and find the axes of symmetry

for the following:

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EXERCISE 14.1 - Question No. 2

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

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EXERCISE 14.1 - Question No. 3

In the following figures, the mirror line (i.e., the line of symmetry) is given as a dotted line. Complete each figure performing reflection in the dotted (mirror) line. (You might perhaps place a mirror along the dotted line and look into the mirror for the image). Are you able to recall the name of the figure you complete?

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EXERCISE 14.1 - Question No. 4

The following figures have more than one line of symmetry. Such figures are said to have multiple lines of symmetry. Identify multiple lines of symmetry, if any, in each of the following figures:

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EXERCISE 14.1 - Question No. 5

Copy the figure given here. Take any one diagonal as a line of symmetry and shade a few more squares to make the figure symmetric about a diagonal. Is there more than one way to do that? Will the figure be symmetric about both the diagonals?

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EXERCISE 14.1 - Question No. 6

Copy the diagram and complete each shape to be symmetric about the mirror line(s):

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EXERCISE 14.1 - Question No. 8

What letters of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about. (a) a vertical mirror (b) a horizontal mirror (c) both horizontal and vertical mirrors

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EXERCISE 14.1 - Question No. 9

Give three examples of shapes with no line of symmetry.

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EXERCISE 14.1 - Question No. 10

What other name can you give to the line of symmetry of (a) an isosceles triangle? (b) a circle?

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EXERCISE 14.2 - Question No. 1

Which of the following figures have rotational symmetry of order more than 1:

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EXERCISE 14.2 - Question No. 2

Give the order of rotational symmetry for each figure:

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EXERCISE 14.3 - Question No. 1

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

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EXERCISE 14.3 - Question No. 2

Draw, wherever possible, a rough sketch of (i) a triangle with both line and rotational symmetries of order more than 1. (ii) a triangle with only line symmetry and no rotational symmetry of order more than 1. (iii) a quadrilateral with a rotational symmetry of order more than 1 but not a line symmetry. (iv) a quadrilateral with line symmetry but not a rotational symmetry of order more than 1.


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EXERCISE 14.3 - Question No. 3

If a figure has two or more lines of symmetry, should it have rotational symmetry of order more than 1?

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EXERCISE 14.3 - Question No. 4

Fill in the blanks: It  class="ee_img" tr_noresize alt="

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Square andamp; . . . andamp; . . . andamp; . . .
Rectangle andamp; . . . andamp; . . . andamp; . . .
Rhombus andamp; . . . andamp; . . . andamp; . . .
EquilateralTriangle andamp; . . . andamp; . . . andamp;
RegularHexagon andamp; . . . andamp; . . . andamp;
Circle andamp; . . . andamp; . . . andamp; . . .
Semi – circle andamp; . . . andamp; . . . andamp; . . .

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EXERCISE 14.3 - Question No. 5

Name the quadrilaterals which have both line and rotational symmetry of order more than 1.

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EXERCISE 14.3 - Question No. 6

After rotating by 60° about a centre, a figure looks exactly the same as its original position. At what other angles will this happen for the figure?

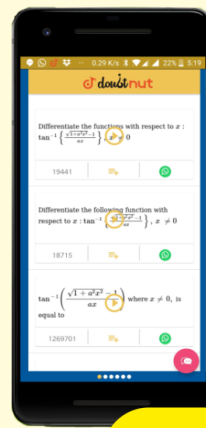
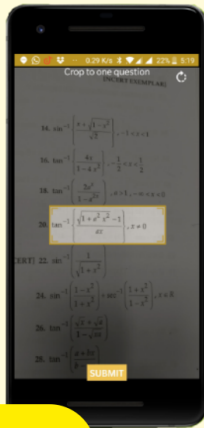
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EXERCISE 14.3 - Question No. 7

Can we have a rotational symmetry of order more than 1 whose angle of rotation is (i) 45° (ii) 17°

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