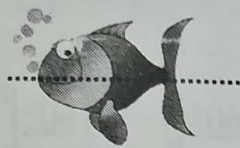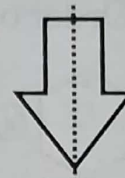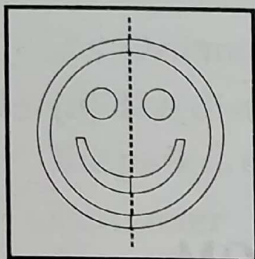# Lesson-10 : Symmetry

Exercise-1

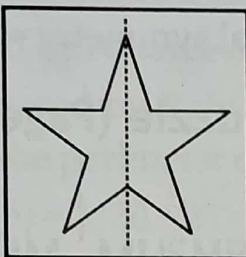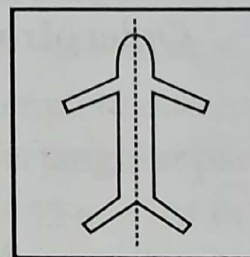1. (a) (iv)   (b) (ii)
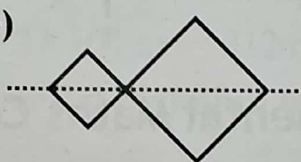
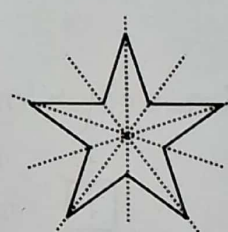2. (a)   (b)   (c)
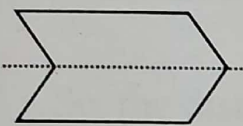
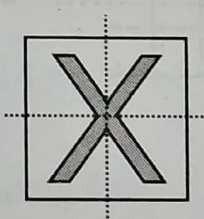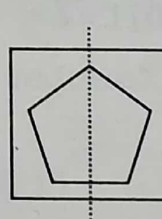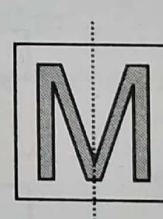3. (a)   (b)   (c)

4. (a)   (b)   (c)   (d)

No line of symmetry   Two lines of symmetry   One line of symmetry   One line of symmetry

Exercise-2

1. (a) (i) W $\xrightarrow{\text{Quarter turn}}$ ⧤
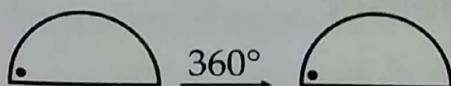
   (b) (ii) X   has a rotational symmetry of order 2.
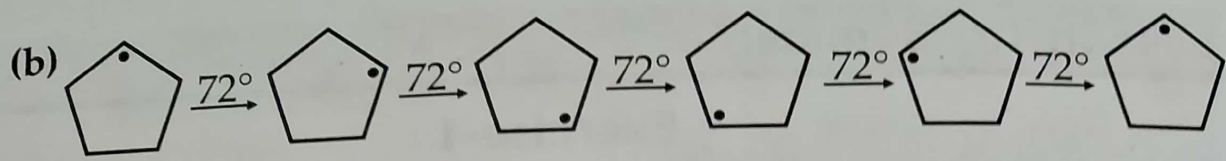
   B   does not have a rotational symmetry.

   Z   has a rotational symmetry of order 2.
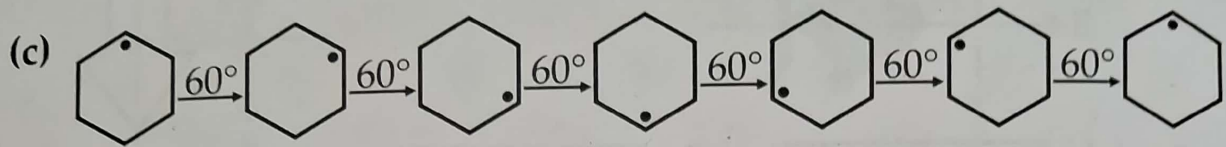
   I   has a rotational symmetry of order 2.

2. (a) $\xrightarrow{360°}$

   Order of rotational symmetry = 1

(b)

$72°$ → $72°$ → $72°$ → $72°$ → $72°$

Order of rotational symmetry = 5

(c)

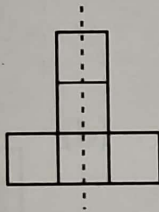$60°$ → $60°$ → $60°$ → $60°$ → $60°$ → $60°$

Order of rotational symmetry = 6

Puzzle (Page 136)

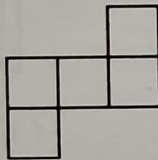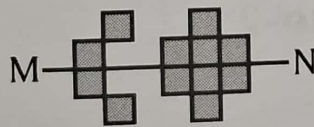MOOЯHƧUM ¦ MUSHROOM

Mental Maths Corner

1.
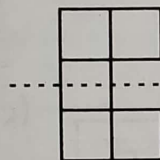
 or or
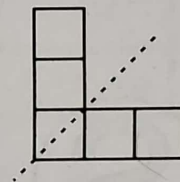
2.

Review Exercise

1. (a) (iii) 5

M—⟨⟩—N

(b) (iv) l, m, n, o each is a line of symmetry.
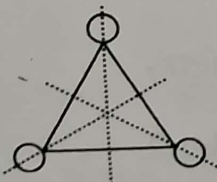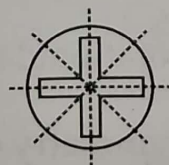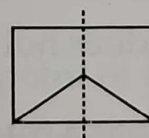
2. (a) **(b)** **(c)** **(d)**
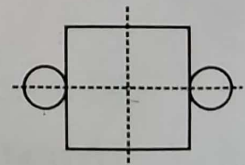
3. (a) 3 **(b)** 4 **(c)** 4 **(d)** 3

Brain Teaser

N S