## 

Class-74n

## Chapter-15

## Tisualising <br>  <br> Shapes

Exercise-15.4

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## Exercise 15.4

Question 1:
A bulb is kept burning just right above the following solids. Name the shape of the shadows obtained in each case. Attempt to give a rough sketch of the shadow.
(You may try to experiment first and then answer these questions).


A ball
(i)


A cylindrical pipe
(ii)


A book
(iii)
E. Answer 1:

| S.No. | Object | Shadow | Shape's name |
| :---: | :---: | :---: | :---: |
| (i) | A ball |  | Circle |
| (ii) | A cylindrical pipe |  | Line |
| (iii) | A book |  | Rectangle |



## Question 2:

Here are the shadows of some 3-D objects, when seen under the lamp of the overhead projector. Identify the solid (s) that match each shadow.
(There may be multiple answers for these!)

A circle

(i)

A square

(ii)

(iii)

A rectangle

(iv)

Answer 2:

| S. No. | Shadow | Shape's Name | 3-D objects |
| :---: | :---: | :---: | :---: |
| (i) |  | Circle | Chapatti, Football, Disc, Plate etc. |
| (ii) |  | Square | Die, Square paper sheet, cubical magic box, Chalk box etc. |
| (iii) |  | Triangle | Ice-cream cone, Birthday cap, etc. |
| (iv) |  | Rectangle | Geometry box, Book, Table etc. |

## Question 3:

Examine if the following are true statements:
(i) The cube can cast a shadow in the shape of a rectangle.
(ii) The cube can cast a shadow in the shape of a hexagon.

En Answer 3:
(i) True
(ii) False


