

# Mathematics

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(Chapter – 15) (Visualising Solid Shapes)

(Class – VII)

## 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)



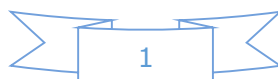
A book

(iii)



### Answer 1:

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



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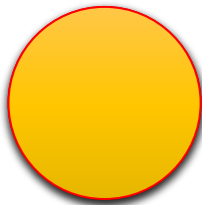
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## Question 2:

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)

A triangle



(iii)

A rectangle

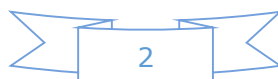


(iv)



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.



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## 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.



## Answer 3:

- (i) True
- (ii) False

