

Exercise 16.2

Question: 1

Give two new examples of each of the for three-dimensional shapes:

- (i) Cone
- (ii) Sphere
- (iii) Cylinder
- (iv) Cuboid
- (v) Pyramid

Solution:

- (i) A school bell and a funnel.
- (ii) A tennis ball and a model of a globe.
- (iii) Drink cans and delivering pipes for a water and gas.
- (iv) A match box and brick.
- (v) A paper- weight and a tower like the Eiffel tower.

Question: 2

What is the shape of:

- (i) instrument box
- (ii) a brick
- (iii) a match box
- (iv) a rod- roller
- (v) a sweet laddoo

Solution:

- (i) My instrument box is in the shape of a cuboid.
- (ii) A brick is in the shape of the cuboid.

- (iii) A match – box is in the shape of a cuboid.
- (iv) A road – roller is in the shape of a cylinder.
- (v) A sweet laddoo is shaped like a sphere.

Objective Type Questions:

Question: 1

Total number of faces of a cuboid is

- (a) 4
- (b) 6
- (c) 8
- (d) 12

Solution:

- (b) 6

Question: 2

Total number of edges of a cuboid is

- (a) 4
- (b) 6
- (c) 8
- (d) 12

Solution:

- (d) 12

Question: 3

Number of faces of a cuboid is

- (a) 4
- (b) 6



(c) 8

(d) 12

Solution:

(c) 8

Question: 4

Which one of them is example of cuboid?

(a) a dice

(b) a football

(c) a gas pipe

(d) an ice- cream cone

Solution:

(a) A dice

Question: 5

A brick is an example of

(a) cube

(b) cuboid

(c) prism

(d) cylinder

Solution:

(b) Cuboid

Question: 6

A gas pipe is an example of

(a) cone

(b) a cylinder

(c) cube

(d) sphere

Solution:

(b) A cylinder

Question: 7

If the base radius and height of a right circular cone are 3 cm and 4 cm in lengths, then the slant height is

(a) 5 cm

(b) 2 cm

(c) 25 cm

(d) 6 cm

Solution:

(a) 5 cm

$$L = \sqrt{r^2 + h^2} = \sqrt{3^2 + 4^2} = \sqrt{25} = 5 \text{ cm.}$$

Question: 8

The number of faces of a triangular pyramid is

(a) 3

(b) 4

(c) 6

(d) 8

Solution:

(b) 4

A pyramid is called a triangular pyramid if its base is a triangle.

Question: 9

The number of edges of a triangular pyramid is

(a) 3

(b) 4

(c) 6

(d) 8

Solution:

(c) 6

Question: 10

A tetrahedron is a pyramid whose base is a

(a) triangle

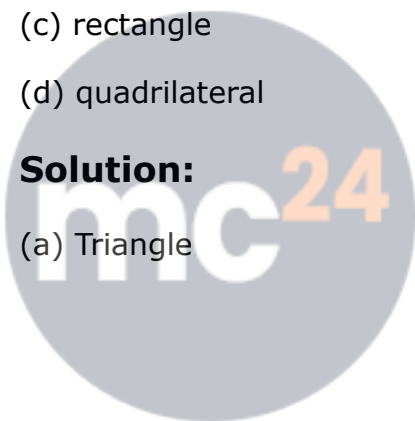
(b) square

(c) rectangle

(d) quadrilateral

Solution:

(a) Triangle



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