



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 5



Topic

Geometric Shapes and Solids



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Worksheet on Geometric Shapes and Solids

1. What kind of angle do the clock hands make at 7:10?

- a. Acute angle
- b. Obtuse angle
- c. Right angle
- d. Straight angle

2. Which of the following shapes has only 1 pair of parallel lines?

- a. Square
- b. Parallelogram
- c. Trapezium
- d. Rectangle

3. Which 3D shape has exactly one vertex and one circular face?

- a. Cylinder
- b. Cube
- c. Cone
- d. Sphere

4. How many rays can be drawn from one point?

- a. 1
- b. 2
- c. 3
- d. Infinite

5. Find the radius of the circle whose diameter is 8.2 cm.

- a. 4.1 cm
- b. 4.2 cm
- c. 4 cm
- d. 3.6 cm



Answer Key

1. b - Obtuse angle

Explanation: 7:10 is shown as:

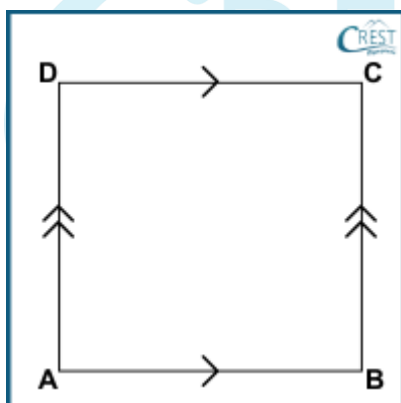


An obtuse angle is an angle that is more than 90° but less than 180° . Since the angle between the minute and hour hands is greater than 90° , it is an obtuse angle.

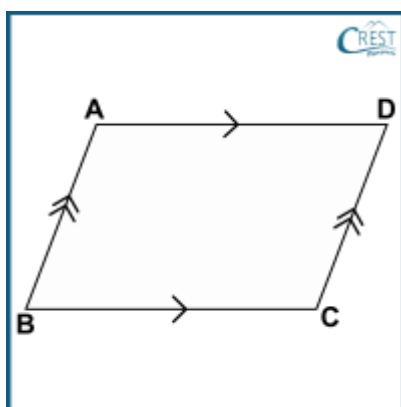
2. c - Trapezium

Explanation: The given shapes are shown as:

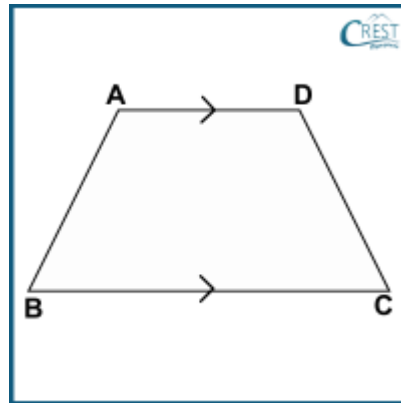
- a) Square -



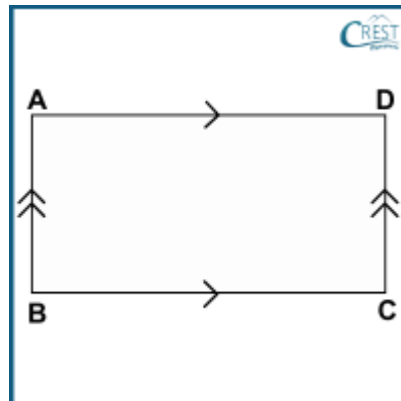
- b) Parallelogram -



c) Trapezium -



d) Rectangle -

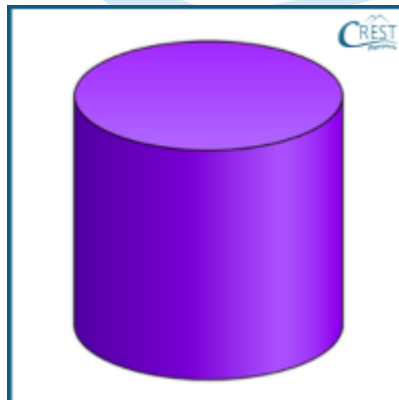


Squares, rectangles, and parallelograms each have two pairs of parallel sides, while a trapezium has only one pair of parallel sides.

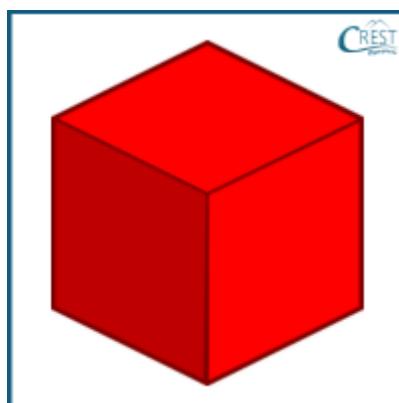
3. c - cone

Explanation: The 3D shapes are shown as:

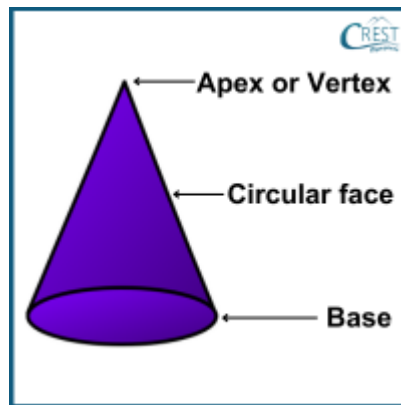
a) Cylinder -



b) Cube -



c) Cone -



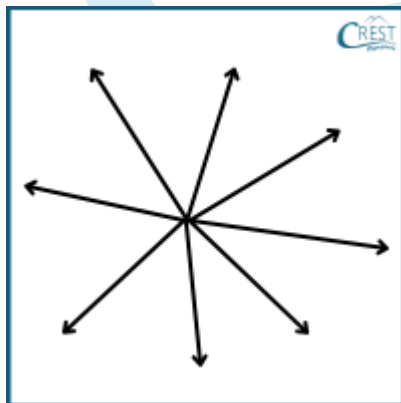
d) Sphere -



We can see that only a cone has exactly one vertex and one circular face.

4. d - Infinite

Explanation: We can draw an infinite number of rays from one point.



5. a - 4.1 cm

Explanation: We know that the radius is half of the diameter.

Radius = diameter/2

= 8.2/2 cm

= 4.1 cm

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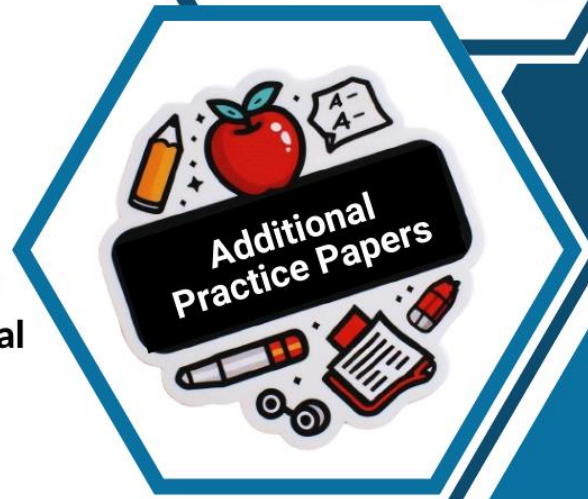
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