Edulyte

3D SHAPES

Aren't we all kicked about watching movies in 3D?! And 3D printing has permeated every aspect: manufacturing to medicine, art to design. But how many of us understand what is 3D and what is a 3-D shape? If you are looking for an answer to this question, avail the resource Edulyte's maths wizards created. Not only do they explain crucial information about 3D shapes, but they also provide a helpful infographic and free worksheet!

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Q1: What is the total number of vertices in a triangular prism?

A: 3
B: 4
C: 5
D: 6

Q2: What is the shape of the base of a cone?

A: Circle
B: Triangle
C: Square
D: Rectangle

Q3: What is the volume of a rectangular prism with a length of 5cm, width of 3cm, and height of 4cm?

A: 20 cm^2
B: 60 cm^3
C: 120 cm^3
D: 180 cm^2

Q4: Which 3D shape has 8 vertices?

A: Cube
B: Sphere
C: Cylinder
D: Cone

Q5: What is the shape of the base of a pyramid?

A: Triangle
B: Square
C: Rectangle
D: Pentagon

Q6: What is the formula for the volume of a sphere?

A: $V = \pi r^2$
B: $V = 4/3\pi r^3$
C: $V = lwh$
D: $V = \pi d^2 h$

Q7: How many faces does a cylinder have?

A: 2
B: 3
C: 4
D: 5

Q8: What is the shape of the base of a rectangular prism?

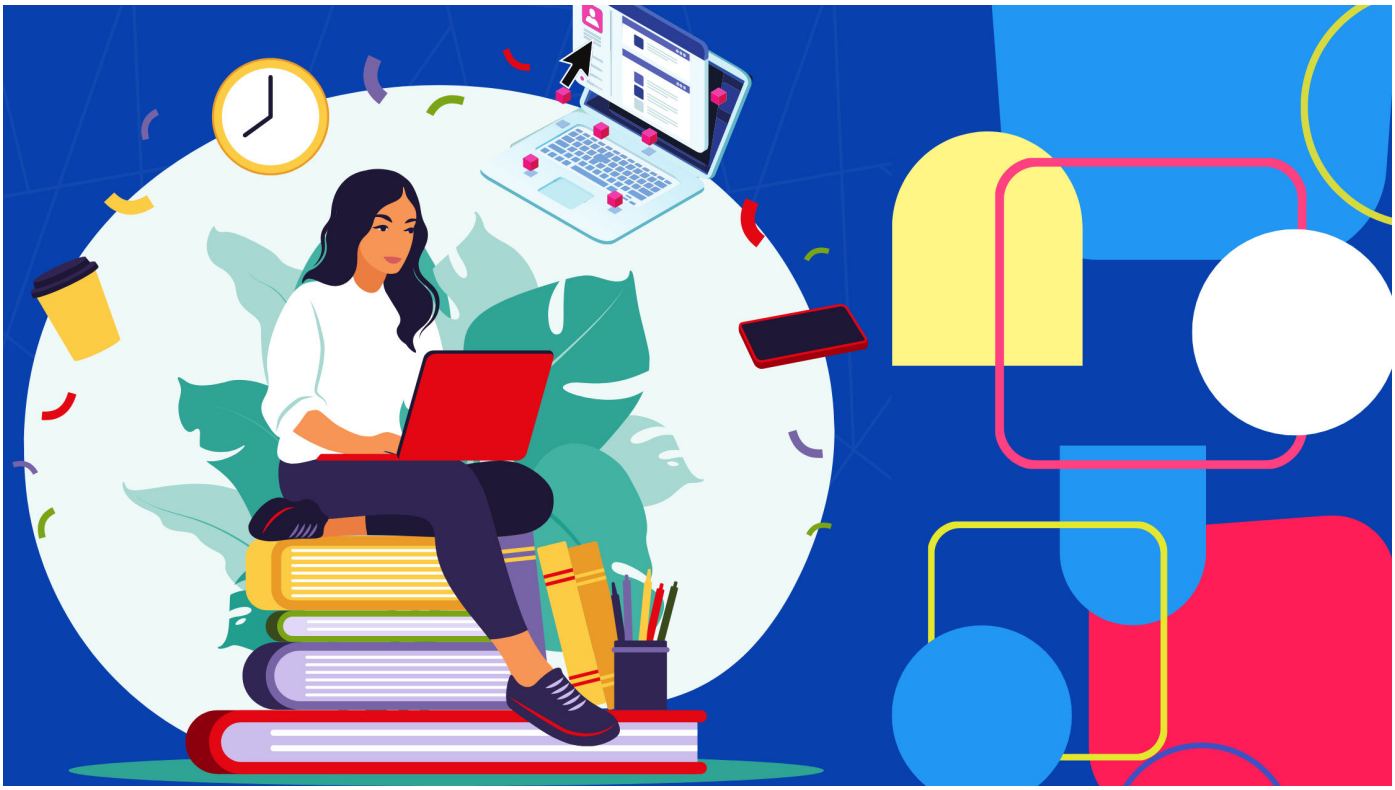
A: Circle
B: Triangle
C: Square
D: Rectangle

Q9: Which 3D shape has no edges or vertices?

A: Sphere
B: Pyramid
C: Cone
D: Cylinder

Q10: What is the relationship between the number of edges, vertices, and faces in a 3D shape?

A: They are all equal
B: The number of vertices equals the number of edges plus the number of faces
C: The number of faces and vertices added together is exactly two more than the number of edges
D: There is no relationship between them



Answers

Q1: D - 6

Q2: A - Circle

Q3: B - 60 cm^3

Q4: A - Cube

Q5: A - Triangle

Q6: B - $V = 4/3\pi r^3$

Q7: B - 3

Q8: D - Rectangle

Q9: A - Sphere

Q10: C - The number of faces and vertices added together is exactly two more than the number of edges