

4 2 practice form g geometry answer

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4.2 Practice Form G: Geometry Answers

Question 1: Find the area of a triangle with a base of 6 cm and a height of 8 cm.

Answer:

The area of a triangle is given by the formula:

$$\text{Area} = (1/2) * \text{base} * \text{height}$$

Substituting the given values:

$$\text{Area} = (1/2) * 6 \text{ cm} * 8 \text{ cm} = 24 \text{ cm}^2$$

Question 2: Find the volume of a cube with a side length of 5 cm.

Answer:

The volume of a cube is given by the formula:

$$\text{Volume} = \text{side}^3$$

Substituting the given value:

$$\text{Volume} = 5 \text{ cm}^3 = 125 \text{ cm}^3$$

Question 3: Find the surface area of a sphere with a radius of 4 cm.

Answer:

The surface area of a sphere is given by the formula:

$$\text{Surface Area} = 4\pi r^2$$

Substituting the given value:

$$\text{Surface Area} = 4(4 \text{ cm})^2 = 64 \text{ cm}^2$$

Question 4: Find the length of the diagonal of a square with a side length of 10 cm.

Answer:

The diagonal of a square is given by the formula:

$$\text{Diagonal} = \sqrt{2} * \text{side length}$$

Substituting the given value:

$$\text{Diagonal} = \sqrt{2} * 10 \text{ cm} = 14.14 \text{ cm}$$

Question 5: Find the number of vertices, edges, and faces of a cube.

Answer:

- Vertices: 8
- Edges: 12
- Faces: 6

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