







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




Surface Area and Volume Print Activity

Use the "Explore It" mode to answer the following questions:

1. Match the shape to its name:

- a.  _____ Triangular Prism
- b.  _____ Rectangular Pyramid
- c.  _____ Cylinder
- d.  _____ Rectangular Prism
- e.  _____ Cone
- f.  _____ Triangular Pyramid

2. Match the shapes to their properties:

- a.  The shapes that have circular bases are _____ and _____.
- b.  The shapes that have rectangular bases are _____ and _____.
- c.  The shapes that have triangular bases are _____ and _____.
- d.  _____
- e.  _____
- f.  _____

3. Select Reset.

- a. The shape displayed on both sides of the screen is called a _____.
- b. The formula beneath each shape is for the _____ (surface area/volume).
- c. The formula stated in words is $V = \text{_____} \times \text{_____}$.
- d. The formula stated in variables is $V = (\)(\)(\)$.
- e. In this example each side measures _____ m.
- f. The volume of the shape is _____ m^3 .
- g. Change the setting to Surface Area. This shape has _____ surfaces and the SA is _____ m^2 . (4/6/8)

4. Select Reset, Rectangular Prism, and Rectangular Pyramid.

- a. The base of both shapes is a _____ whose area formula is $A = \text{_____}$.
- b. The volume formula for the prism is $V = lwh$ and the volume is $V = \text{_____} \text{m}^3$.
- c. The volume formula for the pyramid is $V = \text{_____}$ and the volume is $V = \text{_____} \text{m}^3$.

d. Select Surface Area for each shape.

- i. The prism is made up of _____ rectangular surfaces and has a surface area of _____ m^2 . (4/5/6)
- ii. The pyramid is made up of _____ rectangular and _____ triangular surfaces and has a surface area of _____ m^2 . (1/2/3) (4/5/6)

5. Select Reset, Triangular Prism, and Triangular Pyramid.

- a. The base of both shapes is a _____ whose area formula is $A = \text{_____}$.
- b. The volume formula for the prism is $V = \frac{1}{2}abh$ and the volume is $V = \text{_____} \text{m}^3$.
- c. The volume formula for the pyramid is $V = \text{_____}$ and the volume is $V = \text{_____} \text{m}^3$.

d. Select Surface Area for each shape.

- i. The prism is made up of _____ triangular surfaces, _____ rectangular surfaces, and its surface area is _____ m^2 . (1/2/3) (1/2/3)
- ii. The pyramid is made up of _____ triangular surfaces, and its surface area is _____ m^2 . (4/5/6)

6. Select Reset, Cylinder, and Cone.

- a. The base of both shapes is a _____ whose area formula is $A = \text{_____}$.
- b. The volume formula for the cylinder is $V = \text{_____}$ and the volume is $V = \text{_____} \text{m}^3$.
- c. The volume formula for the cone is $V = \text{_____}$ and the volume is $V = \text{_____} \text{m}^3$.
- d. Select Surface Area for each shape. The resulting surface area of the cylinder is _____ m^2 and for the cone is _____ m^2 .