

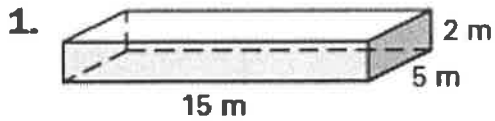
Chapter 8 Quiz

Practice

Name _____

Score ____/17

For Each of the following shapes, do the following: Classify the shape, find the number of faces, edges and vertices, then find the surface area and volume.



1. Name _____

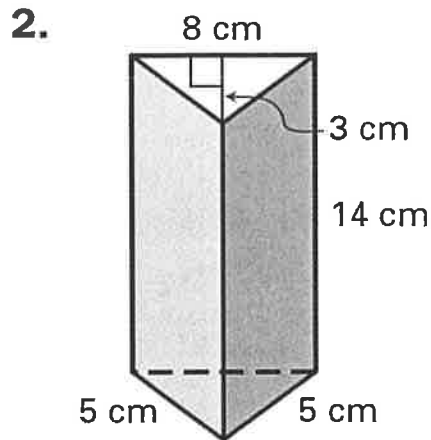
Faces _____

Edges: _____

Vertices _____

S.A.= _____

V= _____



2. Name _____

Faces _____

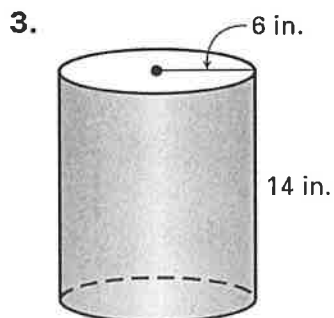
Edges: _____

Vertices _____

S.A.= _____

V= _____

For the following cylinder, find the surface area and volume.



3. S.A.= _____

V= _____

Answers

Chapter 8 Quiz

Name _____

Score ____/17

For Each of the following shapes, do the following: Classify the shape, find the number of faces, edges and vertices, then find the surface area and volume.



$$SA = ph + 2B$$

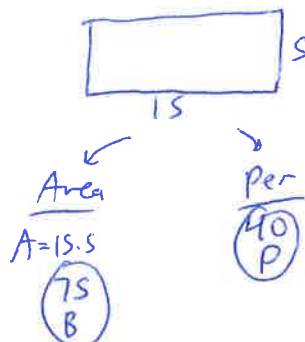
$$40 \cdot 2 + 2 \cdot 75$$

$$= 310$$

$$V = B \cdot h$$

$$= 75 \cdot 2$$

$$= 150$$



1. Name

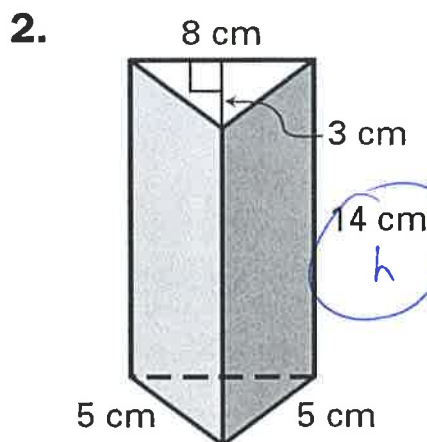
Faces 6

Edges 12

Vertices 8

S.A. = 310 m^2 → Don't use labels on answers

V = 150 m^3 82



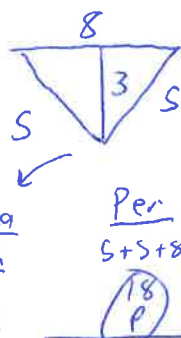
Area

$$A = \frac{b \cdot h}{2}$$

$$= \frac{8 \cdot 3}{2}$$

$$= 12$$

B



$$SA = ph + 2B$$

$$= 18 \cdot 14 + 2 \cdot 12$$

$$= 276 \text{ cm}^2$$

$$V = B \cdot h$$

$$= 12 \cdot 14$$

2. Name Tri. Prism

Faces 5

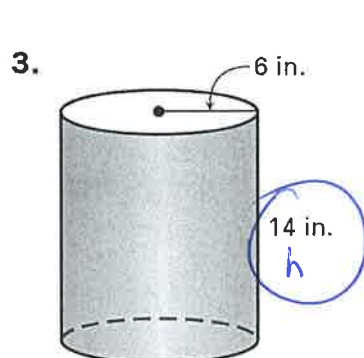
Edges 9

Vertices 6

S.A. = 276 cm^2

V = 168 cm^3

For the following cylinder, find the surface area and volume.



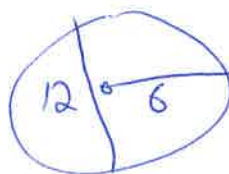
Area

$$A = \pi r^2$$

$$A = 3.14 \cdot 6^2$$

$$= 113.04$$

B



$$SA = ph + 2B$$

$$SA = 37.68 \cdot 14 + 2 \cdot 113.04$$

$$= 753.6$$

$$V = B \cdot h$$

$$= 113.04 \cdot 14$$

3. S.A. = 753.6 in^2

V = 1582.6 in^3