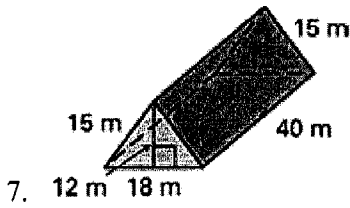


6.

hexagonal prism  
yes, a polyhedron  
8 faces, 18 edges  
12 vertices

Find the surface area of the solid.



7. 12 m 18 m

$$SA = 2,136 \text{ m}^2$$

2 triangles' areas L/R rect bottom rect

$$2\left(\frac{1}{2}bh\right)$$

$$bh$$

$$(18)(12)$$

$$\underline{216}$$

$$A = 2bh$$

$$A = 2(40)(15)$$

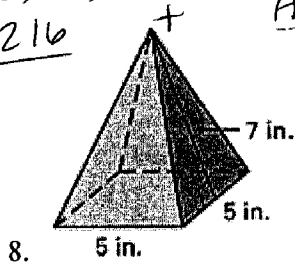
$$A = 1200$$

$$A = bh$$

$$A = (40)(18)$$

$$A = 720$$

$$A = 1200 + A = 720$$



8.

$$SA = 95 \text{ in}^2$$

Square base 4 triangles

$$A = bh$$

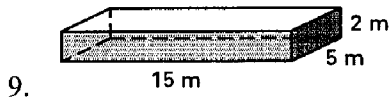
$$A = 5(5)$$

$$A = 25$$

$$4\left(\frac{1}{2}bh\right)$$

$$2bh$$

$$2(5)(7)$$

$$A = 70$$


9.

F/B L/R T/B

$$2bh = A$$

$$2(15)(2)$$

$$60 = A$$

$$A = 2bh$$

$$A = 2(5)(2)$$

$$A = 20$$

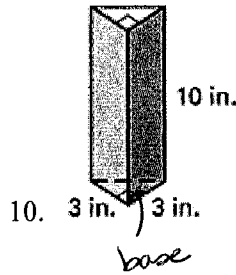
$$A = 2bh$$

$$A = 2(15)(5)$$

$$A = 150$$

$$SA = 230 \text{ m}^2$$

Find the volume of the solid.



10.

$$V = Bh$$

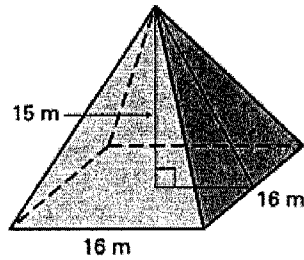
$$V = (\text{area of base})(\text{prism height})$$

$$V = \left(\frac{1}{2}bh\right)(\text{prism height})$$

$$V = \left(\frac{1}{2}\right)(3 \cdot 3)(10)$$

$$V = 45 \text{ in}^3$$

11.



$$V = \frac{1}{3}Bh$$

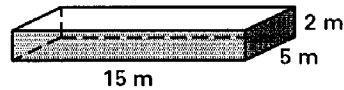
$$V = \frac{1}{3}(\text{area of base})(\text{prism height})$$

$$V = \frac{1}{3}(16)(16)(15)$$

$$V = 5(256)$$

$$V = 1,280 \text{ m}^3$$

12.



$$V = Bh$$

$$V = (lm)h$$

$$V = (15)(5)(2)$$

$$V = 150 \text{ m}^3$$