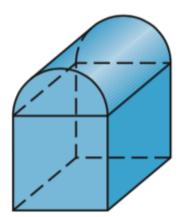
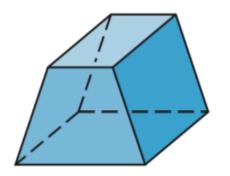
## Chapter 12 Test Review

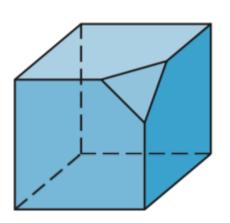
1)

10.



11.

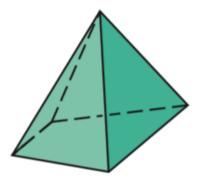




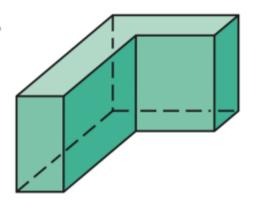
- 10) No, it is not made of all polygons
- 11) Yes, it is made of all polygons
- 12) Yes, it is made of all polygons

2)

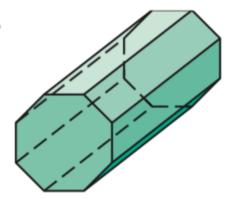
13.



14.



**15**.



Faces: 5

Vertices: 5

Edges: 8

Faces: 8

Vertices: 12

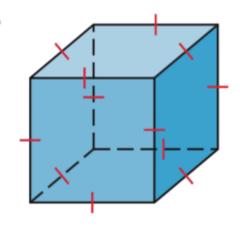
Edges: 18

Faces: 10

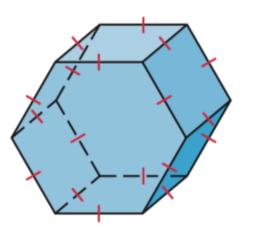
Vertices: 16

Edges: 24

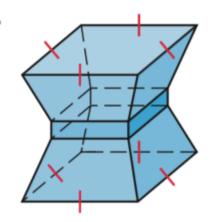






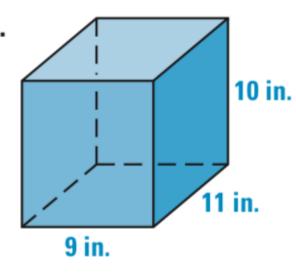


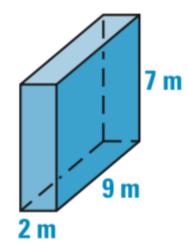
18.



- 16) Regular, convex → all faces are congruent; not "pushed" in
- 17) Not regular, convex  $\rightarrow$  all faces are not congruent; not "pushed" in
- 18) Not regular, not convex (concave)  $\rightarrow$  all faces are not congruent; "pushed" in

alw+alh+awh



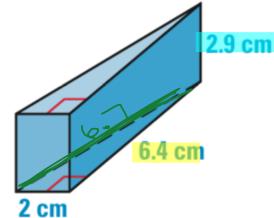


5) regarder myster

6 m 7.2 m

height of X2+22=62 base: X2+4=36 X=5.7

 $2(1/2 \times 4 \times 5.7) + (4 + 6 + 6)(7.2)$  22.8 + 115.2 $138 \text{ m}^2$  24.



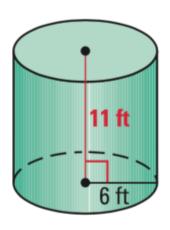
missing side of base for perimeter:

14.96=X2 7+40.96=X2 52+6.42=X2

 $2(1/2 \times 2 \times 6.4) + (2+6.4+6.7)(2.9)$  12.8 + 43.79  $56.59 \text{ cm}^2$ 

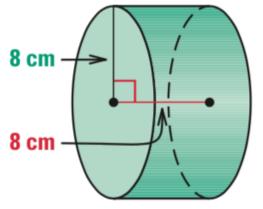
 $2\pi r^2 + 2\pi r h$ 

**26**.



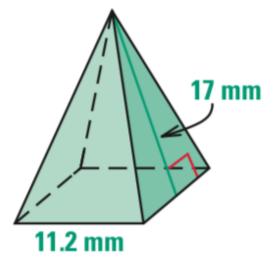
226.08 + 414.48

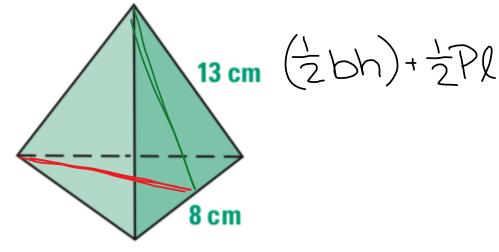
**27**.



401.92 + 401.92 803.84 cm<sup>2</sup> **17**.

$$(b \times h) + \frac{1}{2} P l$$

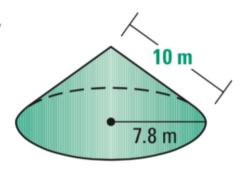




h. 
$$4^2 + x^2 = 8^2$$
  
 $16 + x^2 = 64$   
 $16 + 12 = 169$   
 $16 + 12 = 169$   
 $16 + 12 = 169$   
 $16 + 12 = 169$   
 $16 + 12 = 169$ 

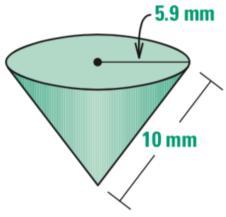
TTC2+TTCL

23.



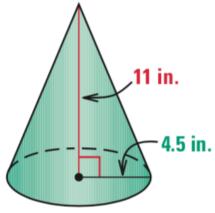
(3.14)(7.82)+(3.14)(7.8)(10)

191.03+244.92 435.95 m² 24.



 $(3.14)(5.9^2)+(3.14)(5.9)(10)$ 

109.30 + 185.26 294.56 mm² **25**.

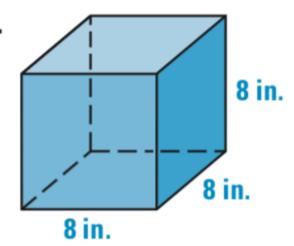


(3.14)(4.52)+(3.14)(4.5)(11.9)

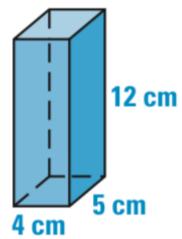
63.59 + 168.15 231.74 m<sup>2</sup> 10-11)

lxwxn

13.



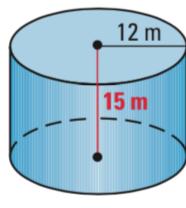
8×8×8 512 m3 14.



4x5x12 240 cm<sup>3</sup>

TTC2h

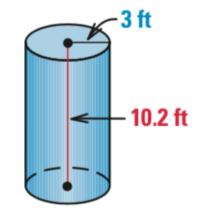
16.



 $(3.14)(12^2)(15)$ 

6782-4 m3

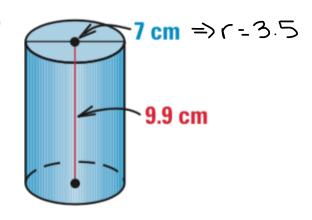
**17**.



 $(3.14)(3^2)(10.2)$ 

288.25 A3

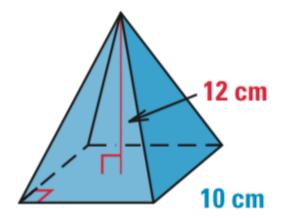
18.



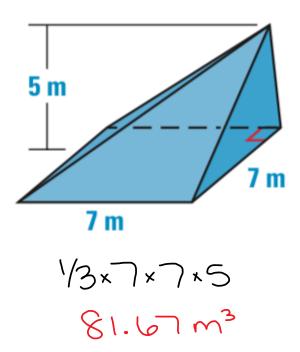
(3.14)(3.5<sup>2</sup>)(9.9) 380.80 cm<sup>3</sup>

$$\frac{1}{3}$$
 x l x w x h

11.

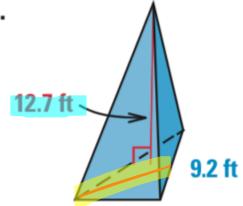


1/3×10×10×12 400 cm<sup>3</sup>



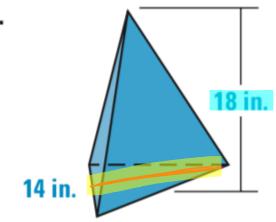
height height or pyramid

13.



$$h^{\circ}_{3}4.62 + \chi^{2} = 9.2^{2}$$
 $21.16 + \chi^{2} = 84.64$ 
 $\chi^{2} = 63.48$ 
 $\chi = 7.9$ 

$$(1/3)(1/2 \times 9.2 \times 7.9)(12.7)$$
  
153.8 ft<sup>3</sup>



$$h: 7^{2} + x^{2} = 14^{2}$$

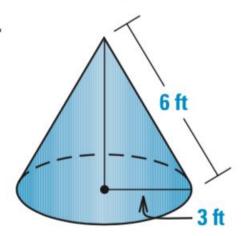
$$49 + x^{2} = 147$$

$$x = 12.1$$

$$(1/3)(1/2 \times 14 \times 12.1)(18)$$
  
508.2 m<sup>3</sup>

 $\frac{1}{3}\pi r^2h$ 

**17**.



$$h: 3^{2} + X^{2} = 6^{2}$$

$$9 + X^{2} = 36$$

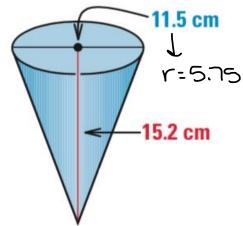
$$X^{2} = 27$$

$$X = 5.2$$

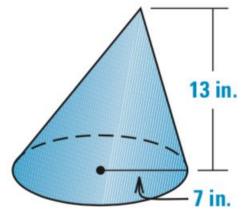
$$\frac{1}{3}(3.14)(3^{2})(5.2)$$

$$48.98 + 6^{3}$$

18.



$$\frac{1}{3}(3.14)(5.75^2)(15.2)$$
526.00 cm<sup>3</sup>



$$\frac{1}{3}(3.14)(72)(13)$$
 $666.73 m^3$