

Lesson 1.5.9: Unit Review

Target: I am ready for the Unit 1.5 Test.

Make sure your formula sheet is filled out!!

Use the circle area conjecture to solve for the unknown measures in exercises 1-3. Leave your answers in terms of π unless it asks for an approximation.

1.) If $r = 3$ in.,
 $A = \underline{\hspace{2cm}}$.

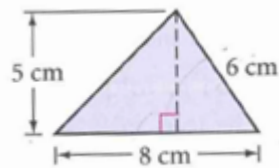
2.) If $r = 0.5$ m,
 $A \approx \underline{\hspace{2cm}}$.

3.) If $C = 2\pi$ in.,
 $A = \underline{\hspace{2cm}}$.

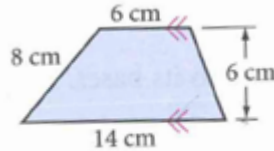
4.) A circle has area 20π ft². What is the area of a 45° sector of the circle? $A = \underline{\hspace{2cm}}$.

For each picture, find the missing measurement. Make sure to write the units in the appropriate way.

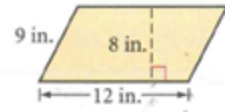
5.) $A = \underline{\hspace{2cm}}$



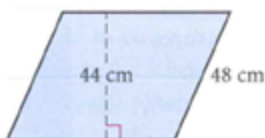
6.) $A = \underline{\hspace{2cm}}$



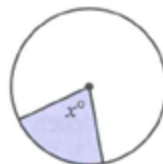
7.) $A = \underline{\hspace{2cm}}$



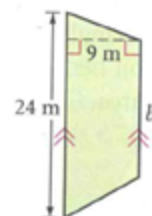
8.) $A = 2508$ cm²
 $P = \underline{\hspace{2cm}}$



9.) The shaded area is 120π cm²
 and $r = 24$ cm.
 $x = \underline{\hspace{2cm}}$



10.) $A = 180$ m²
 $b = \underline{\hspace{2cm}}$



11.) How many of each?

Faces: _____
 Edges: _____
 Vertices: _____



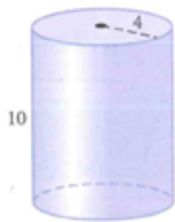
12.) What is the volume of a hemisphere that has a radius of 22 cm?

$V =$ _____

Find the volume of the following figures:

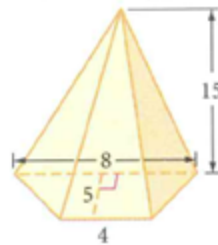
13.) $V =$ _____

Right cylinder

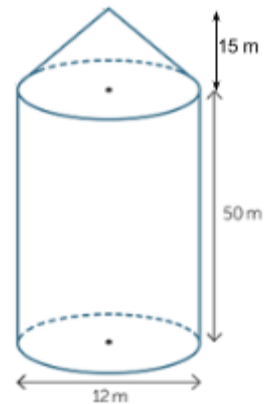


14.) $V =$ _____

Trapezoidal pyramid



15.) $V =$ _____



16.) $V =$ _____

Cone



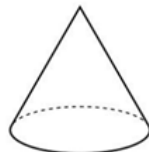
17.) A sphere of ice cream is placed onto your ice cream cone. Both have a diameter of 8 cm. The height of your cone is 12 cm. If you push the ice cream into your cone, will all of it fit? Make sure you have a complete answer with your work shown.

Find the missing measurements.

18.) $V = 324\pi \text{ cm}^3$

$h = 12 \text{ cm}$

$r =$ _____



19.) $V = 200 \text{ cm}^3$

$h = 10 \text{ cm}$

$x =$ _____

