TUESDAY, MAY 31ST

8 DAYS AND COUNTING...

TODAY'S AGENDA ~

CORRECT VOLUME OF CYLINDERS WORKSHEET

REVIEW

QUIZ - CIRCLES AND CYLINDERS

HOMEWORK: NONE :)

Student Name: _____ Score:

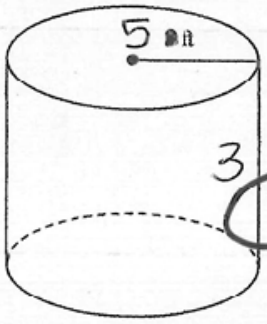
Volume of a Cylindrical Prism

		Work Space
1	Radius of a cylinder is 6 inches and the height is 13 inches. Find the exact volume of a cylinder. Volume = 1469.52 in^3	$V = \pi \cdot r^2 \cdot h$ $V = \pi \cdot 6^2 \cdot 13$
2	Diameter of a cylindrical tank is 9 feet and the height of a tank is 25 feet. Find the volume of the cylindrical tank to the nearest hundredth place. Volume = 1589.63 ft^3	9 → $R = 9 \div 2 = 4.5$ $V = \pi \cdot r^2 \cdot h$ $V = \pi \cdot 4.5^2 \cdot 25$
3	Radius = 1.2 yards; Height = 3.4 yards. Find the volume of a cylindrical prism to the nearest two decimal places. (Take $\pi = 3.14$) Volume = 15.37 yd^3	$V = \pi \cdot 1.2^2 \cdot 3.4$
4	Radius of a cylindrical prism is 2 inches and the height of a prism is four times the radius. Find the volume of a cylindrical prism. ($Take\ \pi = 3.14$) Volume = 100.48 in^3	$V = \pi \cdot r^2 \cdot h$ $h = 2 \cdot 4 = 8$ $V = \pi \cdot 2^2 \cdot 8$
5	Find the exact volume of a cylindrical prism whose diameter is 7 yards and the height is 8 yards. Volume = 307.72 yd^3	$V = \pi \cdot r^2 \cdot h$ $V = \pi \cdot 3.5^2 \cdot 8$ $R = 7 \div 2 = 3.5$

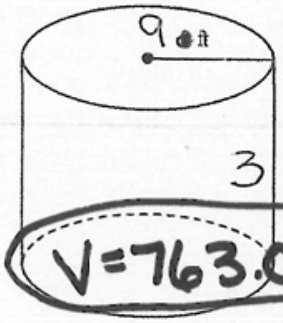
Name: _____ Class: _____ Date: _____ ID: A

Cylinder Volume

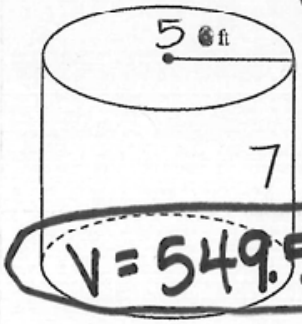
Find the Volume of the Cylinders.

1. 

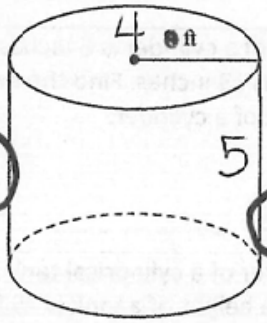
$V = \pi r^2 h$
$V = \pi \cdot 5^2 \cdot 3$
$V = 235.5 ft^3$

2. 

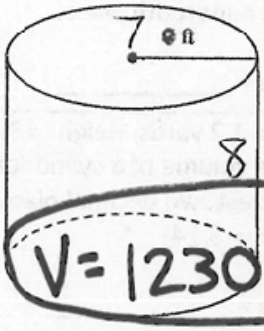
$V = \pi \cdot r^2 \cdot h$
$V = \pi \cdot 9^2 \cdot 3$
$V = 763.02 ft^3$

3. 

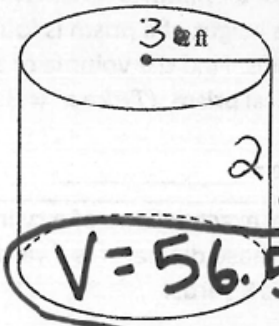
$V = \pi \cdot r^2 \cdot h$
$V = \pi \cdot 5^2 \cdot 7$
$V = 549.5 ft^3$

4. 

$V = \pi r^2 h$
$V = \pi \cdot 4^2 \cdot 5$
$V = 251.2 ft^3$

5. 

$V = \pi \cdot r^2 \cdot h$
$V = \pi \cdot 7^2 \cdot 8$
$V = 1230.88 ft^3$

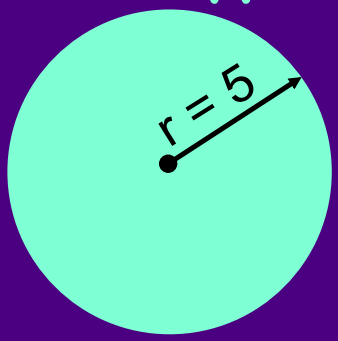
6. 

$V = \pi \cdot r^2 \cdot h$
$V = \pi \cdot 3^2 \cdot 2$
$V = 56.52 ft^3$

Review ~ Circles & Cylinders

Find the area and circumference of each circle.

A =

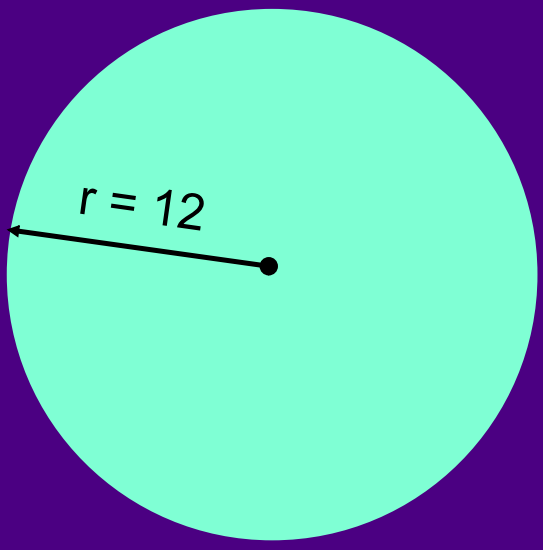


C = 2πr
= 2π5
= 31.4

A = πr²
= π5²
= 78.5

A = πr²
= π1.5²
= 7.07

C = 2πr
= 2π1.5
= 9.42



A = πr²
= π12²
= 452.16

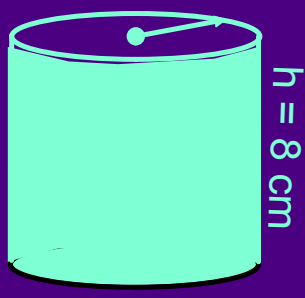
C = 2πr
= 2π12
= 75.36

A =

C =

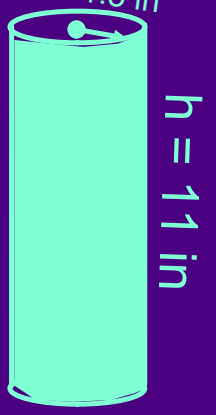
Review ~ Circles & Cylinders

Find the volume and surface area of each cylinder.



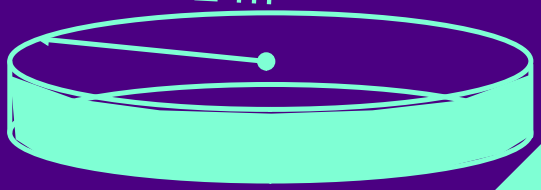
$V = \pi r^2 h = \pi 5^2 8 = 628 cm^3$

$A = 2\pi rh + 2\pi r^2$
$= 2\pi 5 \cdot 8 + 2\pi 5^2$
$= 408.2\ cm^2$



$V = \pi r^2 h = \pi 1.5^2 11 = 77.72 in^3$

$A = 2\pi rh + 2\pi r^2$
$= 2\pi 1.5 \cdot 11 + 2\pi 1.5^2$
$= 117.75\ in^2$



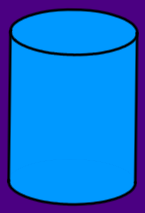
$A = 2\pi rh + 2\pi r^2$
$= 2\pi 12 \cdot 2 + 2\pi 12^2$
$= 1055.04 m^2$

$V = \pi r^2 h = \pi 12^2 2 = 904.32 m^3$

ANY QUESTIONS??

$C = \pi d = 2r\pi$

$A = \pi r^2$



$A = 2\pi rh + 2\pi r^2$

$V = \pi r^2 h$

QUIZ TIME

YOU MAY USE...

~ YOUR EXAMPLE AND VOCAB. BOOKS

~ A CALCULATOR

WHEN YOU FINISH...

~ PUT YOUR QUIZ IN THE SORTER

~ DO SOMETHING SILENT FOR THE REST OF CLASS