May 27, 2011

We only have single digit days left of school!

Today's Agenda ~
Correct Surface Area
of Cylinders worksheet
Cylinder Volume notes

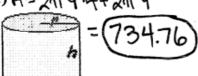
Homework: Cylinder Volume worksheet

Find the Surface Area

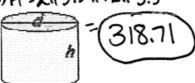
A = 211rh+211r2

NAME Key

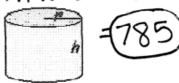
1) A=2m9.4+2m92



2)A=2113.5·11+2113.5²



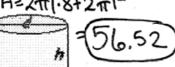
3) A=27 5.20+27 52



radius =9

height = 4

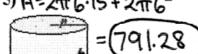
4) A=211/8+2112



T=7+2=3.5 diameter =7

height = 11

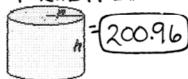
5) A=2116·15+21162



radius =5

height = 20

6) A = 2π2·14+2π22



rodius=2+2=1 diameter =2

height = 8

7) A=2178.10+21782



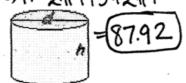
radius =8

height = 10

radius =6

height = 15

8) A=21113+2112



radius: 2+2=1 diameter =2

height = 13

radius =2

héight = 14

9) A=2174.5·10+2174.52



rodius =9+2=4.5 diameter =9

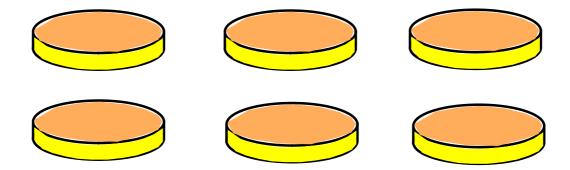
height = 10

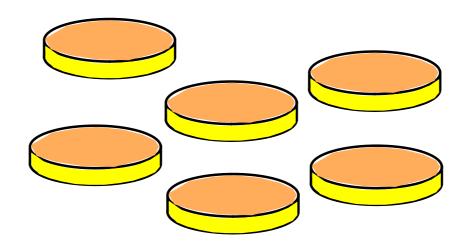
Score:

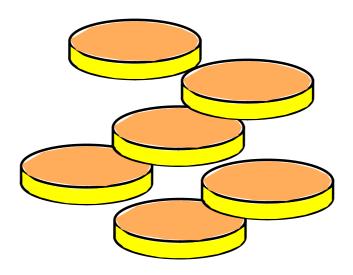
Surface Area of a cylindrical prism

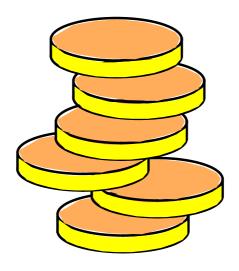
Work Space

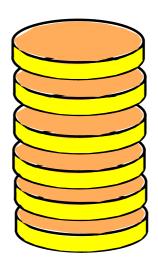
Find the surface area of a cylindrical prism with radius 5 cm and height 8 cm.	A=2π58+2π52
Answer: 408.2cm ²	
Diameter and height of a cylinder is 5 feet and 12 feet respectively. Find the surface area of a cylinder.	D=5F+ R=5+2=2.5 H=12F+
	A=2172.5(12) +2172.52
Answer: 227.65ft ² Radius = 3.2 yard; Height = 7 yard. Find	
the surface area of a cylinder.	A=2173.2.7+2173.22
Answer: 204.98 yd ²	
Find the surface area of a cylindrical prism with diameter 6 inches and height 7.5 inches.	D=binches R=6:2=3 H=7.5inches
	A=217375+21732
Answer: 197.82in2	
Find the surface area of a cylindrical tank with radius 4 ft and height 7.2 feet. Round the answer to the nearest hundredth place.	A=2174.7.2+21742
Answer: 281.34 F+2	

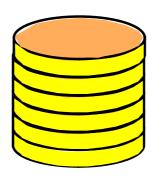












To find the Volume of a Cylinder, use this formula

$$V = Bh$$
 $B = \text{area of base}$
 $h = \text{height}$
 $V = Volume$
 $V = Bh$
 $V = Ch$

So let's practice...

Find the volume of these cylinders.

$$V = \pi r^{2}h$$

$$V = \pi \cdot 8^{2} \cdot 10$$

$$V = 2009.6$$

$$V = \pi \cdot 4^{2} \cdot 6$$

$$V = \pi \cdot 4^{2} \cdot 6$$

$$V = 301.44$$

$$V = \pi \cdot 5^{2} \cdot 2$$

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