

MAY 26, 2011

**THANK YOU HARMON KILLEBREW!
READY FOR SOME CYLINDER SURFACE AREA AND
VOLUME? I HOPE SO, BECAUSE THATS WHAT WE ARE
LEARNING ABOUT TODAY.**

**TODAY'S AGENDA ~
CORRECT CIRCLE WORKSHEET
TALK ABOUT THE TEST
CYLINDER NOTES**

HOMEWORK:CYLINDER SURFACE AREA WORKSHEET

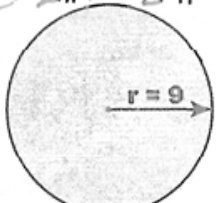
Chapter 5 Preview/ Refresher

Area, Circumference from Radius, Diameter
Version 1

Name: Key


Calculate the area and circumference of each circle. Use $\pi=3.14$.

$C = 2\pi r = 2 \cdot \pi \cdot 9 = 56.52$



$A = \pi r^2 = \pi \cdot 9^2 = 254.34$


$C = 2\pi r = 2\pi \cdot 1 = 6.28$



$A = \pi r^2 = \pi \cdot 1^2 = 3.14$

$C = 2\pi r = 2\pi \cdot 3 = 37.68$

$d = 6$



$A = \pi r^2 = \pi \cdot 3^2 = 28.26$


~~$C = 2\pi r = 2\pi \cdot 9 = 56.52$~~



~~$A = \pi r^2 = \pi \cdot 9^2 = 254.34$~~

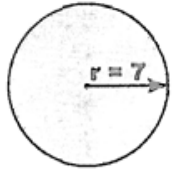
$C = 2\pi r = 2\pi \cdot 4 = 25.12$

$d = 8$



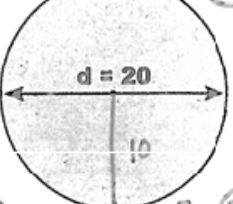
$A = \pi r^2 = \pi \cdot 4^2 = 50.24$

$C = 2\pi r = 2\pi \cdot 7 = 43.96$




$A = \pi r^2 = \pi \cdot 7^2 = 153.86$

$C = 2\pi r = 2\pi \cdot 10 = 62.8$



$A = \pi r^2 = \pi \cdot 10^2 = 314$

$C = 2\pi r = 2\pi \cdot 4 = 25.12$



$A = \pi r^2 = \pi \cdot 4^2 = 50.24$

~~$C = 2\pi r = 2\pi \cdot 3 = 37.68$~~



~~$A = \pi r^2 = \pi \cdot 3^2 = 28.26$~~

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$$A = \pi r^2$$

$$C = 2\pi r$$

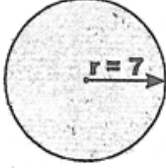
Chapter 5 - Preview/Refresher

Calculate Circle Radius, Diameter, Circumference,
Area 1
Version 1

Name: _____


Calculate the radius, diameter, area and circumference Use $\pi=3.14$.

$R=7$ $D=2r=2 \cdot 7=14$




$C=2\pi r=2\pi \cdot 7=43.96$
 $A=\pi r^2=\pi \cdot 7^2=153.86$

$R=1$ $D=2r=2 \cdot 1=2$




$C=2\pi r=2\pi \cdot 1=6.28$
 $A=\pi r^2=\pi \cdot 1^2=3.14$

$R=2$ $D=2r=2 \cdot 2=4$



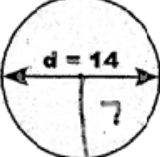
$C=2\pi r=2\pi \cdot 2=12.56$
 $A=\pi r^2=\pi \cdot 2^2=12.56$

$R=3$ $D=2 \cdot 3=6$




$A=\pi r^2$
 $28.26=\pi r^2$
 $\frac{28.26}{\pi} = \frac{\pi r^2}{\pi}$
 $a = 28.26$
 $\sqrt{9} = r$
 $3=r$
 $C=2\pi r=2\pi \cdot 3=18.84$
 $A=28.26$

$R=7$ $D=14$




$C=2\pi r=2\pi \cdot 7=43.96$
 $A=\pi r^2=\pi \cdot 7^2=153.86$

$R=2$ $D=4$




$C=2\pi r=2\pi \cdot 2=12.56$
 $A=\pi r^2=\pi \cdot 2^2=12.56$

$R=4$ $D=8$



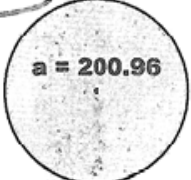
$C=2\pi r=2\pi \cdot 4=25.12$
 $A=\pi r^2=\pi \cdot 4^2=50.24$

$R=6$ $D=12$



$C=37.68$
 $A=113.04$
 $C \div 2 \div \pi = r$
 $37.68 \div 2 \div \pi = 6$

$R=8$ $D=8 \cdot 2=16$



$A=200.96$ $C=50.24$
 $A \div \pi = 200.96 \div \pi = 64$
 $\sqrt{64} = r = 8$

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$$A = \pi r^2$$

$$C = 2\pi r$$

TEST INFORMATION

#10 - EXTRA CREDIT (6 POINTS)

TEST CORRECTIONS

AFTER SCHOOL SESSION TODAY

- I WILL HELP WITH CORRECTIONS.

BEFORE SCHOOL TOMORROW AT 7:10

- I WILL HELP WITH CORRECTIONS.

OR YOU CAN CORRECT ON YOUR OWN

**WITH THE HELP OF SOMEONE ELSE WHO
KNOWS HOW TO DO THE PROBLEMS.**

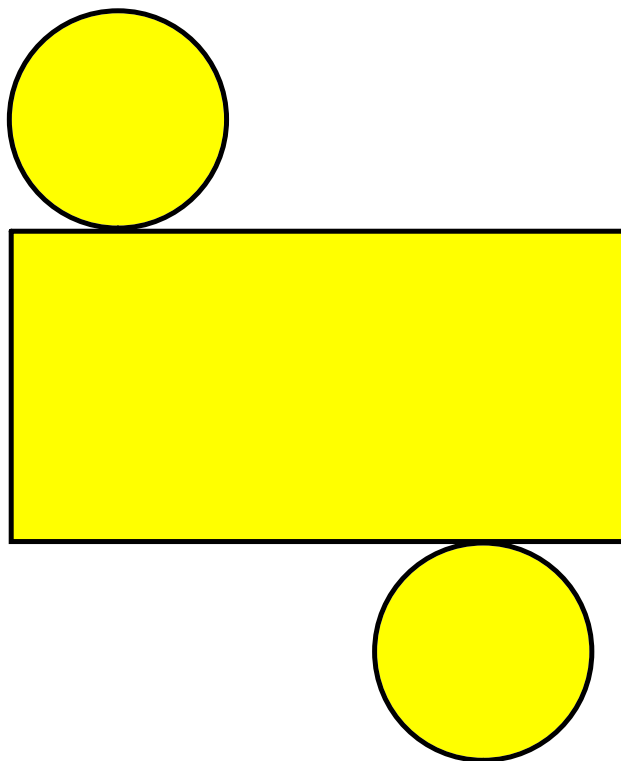
CYLINDERS CAN BE MADE WITH 3 PIECES OF PAPER:

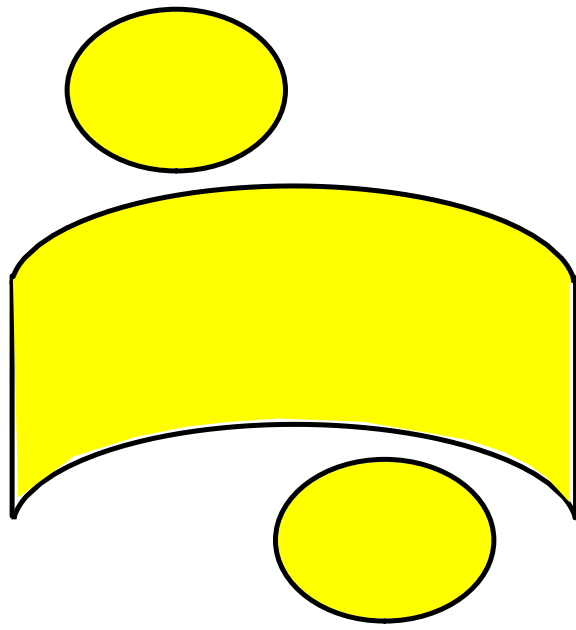
CIRCLE - TOP

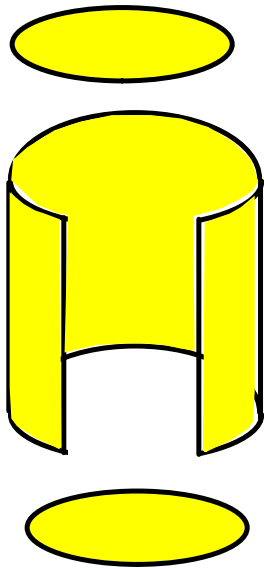
CIRCLE - BOTTOM

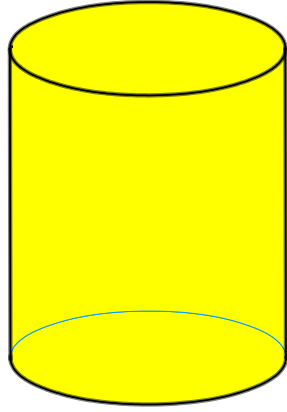
RECTANGLE - TUBE

WATCH THE CYLINDER BE MADE...

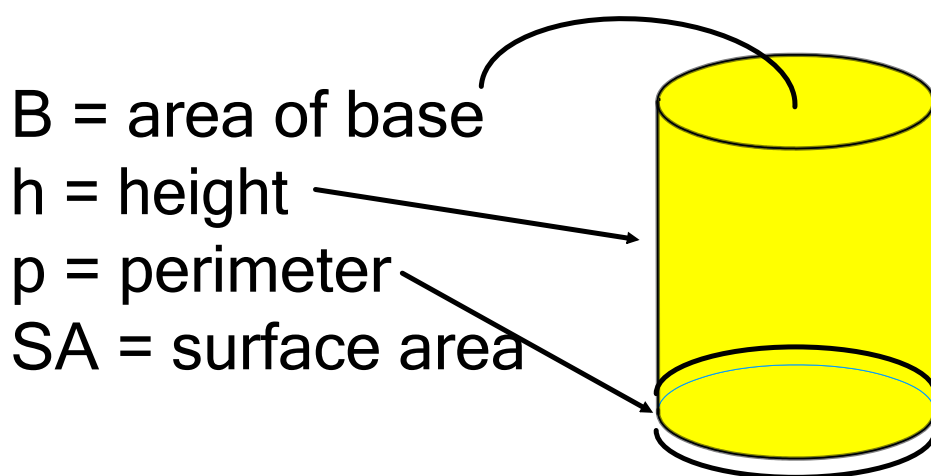








To find the Surface Area of a Cylinder,
use this formula

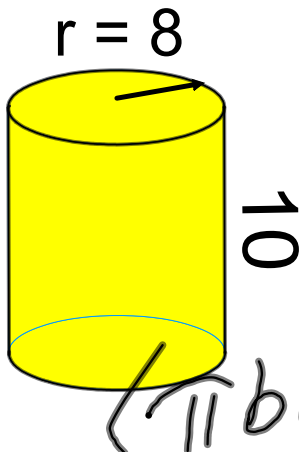


$$SA = ph + 2B$$

$$A = \underbrace{2 \cdot \pi \cdot r \cdot h}_{\text{Circumference}} + \underbrace{2 \cdot \pi \cdot r^2}_{\text{area}^2}$$

So let's practice...

Find the surface area of these cylinders.

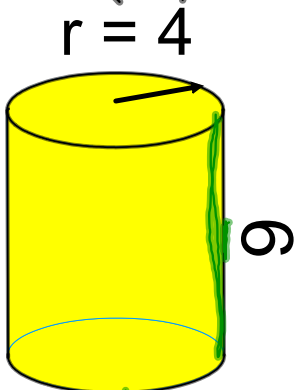


$$A = 2 \cdot \pi \cdot r \cdot h + 2 \cdot \pi \cdot r^2$$

$$A = 2 \cdot \pi \cdot 8 \cdot 10 + 2 \cdot \pi \cdot 8^2$$

$$A = 904.32$$

$$(\pi \text{ button} = 904.7786842)$$

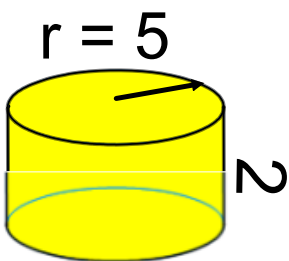


$$A = 2 \cdot \pi \cdot r \cdot h + 2 \cdot \pi \cdot r^2$$

$$A = 2 \cdot \pi \cdot 4 \cdot 6 + 2 \cdot \pi \cdot 4^2$$

$$A = 251.2$$

$$(\pi \text{ button} = 251.32784123)$$



$$A = 2 \cdot \pi \cdot r \cdot h + 2 \cdot \pi \cdot r^2$$

$$A = 2 \cdot \pi \cdot 5 \cdot 2 + 2 \cdot \pi \cdot 5^2$$

$$A = 219.8$$

Homework:
Cylinder Surface Area worksheet

