Name:	Date:					
	Using Formulas					
Using the given formulas, find the unknown value.						
Use 3.14 for π . Round to the nearest hundredth if necessary.						
1) What is the perimeter of a recta	angle with a base of 120 mm and a height of 145 mm?					
Find the formula for the	of a					
Copy the formula:						
Plug in the known values:						
Use PEMDAS to find the unk	nown value:					
State your answer with the c	orrect units:					
		, •				
		•				
_	ram with a base of 8 yards and a height of 10 yards?					
Find the formula for the	of a					
Copy the formula:		_				
Plug in the known values:						
Use PEMDAS to find the unk	nown value:					
State your answer with the o	orrect units:					
						

3) W	/hat is the area of a triangle with a base of 7 m	n and a height of 8 m?	
	Find the formula for the	of a	
	Copy the formula:		
	Plug in the known values:		L
	Use PEMDAS to find the unknown value:		\
	State your answer with the correct units:		7
4) W	hat is the circumference of a circle with a rad	ius of 4 inches?	
	Find the formula for the	of a	•
	Copy the formula:		
	Plug in the known values:)
	Use PEMDAS to find the unknown value:		
	State your answer with the correct units:		
5) W	/hat is the area of a circle with a diameter of 7	'cm.	
	Find the formula for the	of a	
	Copy the formula:		
	Plug in the known values:		1
	Use PEMDAS to find the unknown value:		<u> </u>
	State your answer with the correct units:		

6) W	hat is the volume of a rectangular prism wind of 6 m?	th a length of 8 m, width of 9 m, and height
	Find the formula for the	of a
	Copy the formula:	
	Plug in the known values:	
	Use PEMDAS to find the unknown value:	
	State your answer with the correct units:	
7) W	hat is the volume of a cylinder with a radius	s of 10 cm and a height of 12 cm?
	Find the formula for the	of a
	Copy the formula:	
	Plug in the known values:	
	Use PEMDAS to find the unknown value:	
	State your answer with the correct units:	

8) What is the volume of a sphere with a radius of 9 ft.? Find the formula for the ______ of a _____. Copy the formula: Plug in the known values: Use PEMDAS to find the unknown value: State your answer with the correct units: 9) What is the volume of a cone with a diameter of 6 cm and a height of 12 cm? Find the formula for the ______ of a ______. Copy the formula: Plug in the known values: Use PEMDAS to find the unknown value: State your answer with the correct units:

10) V	What is the surface area of a cylinder with a	radius of 5 ft. and a height	of 8 ft.?
	Find the formula for the	of a	<u>-</u> ·
	Copy the formula:		
	Plug in the known values:		
	Use PEMDAS to find the unknown value:		
	State your answer with the correct units:		
11) V	What is the surface area of a sphere with a c	liameter of 8 in?	
	Find the formula for the	of a	·
	Copy the formula:		
	Plug in the known values:		
	Use PEMDAS to find the unknown value:		
	State your answer with the correct units:		

PERIMETER

PERIMETER

PERIMETER FORMULAS

perimeter = distance around

square..... P = 4s

rectangle..... P = 2b + 2h

OR

P = 2l + 2w

triangle P = a + b + c

PERIMETER

AREA

AREA FORMULAS

square..... $A = s \times s$

rectangle..... A = bh

A = lw

 $parallelogram \dots A = bh$

triangle $A = \frac{1}{2}bh$

circle..... $A = \pi r^2$

PERIMETER

SURFACE AREA

TOTAL SURFACE AREA (SA) FORMULAS

right rectangular prism SA = 2(lw) + 2(hw) + 2(lh)

right circular cylinder $SA = 2\pi r^2 + 2\pi rh$

sphere $SA = 4\pi r^2$

CIRCLES

 $C = 2\pi r$

circumference

VOLUME

VOLUME FORMULAS

rectangular prism V = lwh

sphere $V = \frac{4}{3}\pi r^3$

cone.... $V = \frac{1}{3}\pi r^2 h$

right circular cylinder $V = \pi r^2 h$

CIRCLE FORMULAS

area..... $A = \pi r^2$

circumference.... $C = 2\pi r$

OR

 $C = \pi d$

Area $A = \pi r^2$