Geometry B		Name
11.1 Three Dimensional Figures and Cross Sections		Hour Date
Norma and and did Them many the	ASSIGNMENT	
Name each solid. Then name the	e bases, faces, edges, and vertice	es.
1. F	a. Name:	
	b. Bases:	
	c. Faces:	
A	d. Edges:	
	e. Vertices:	
2. Name the polyhedron below	w. Then state the number of face	es, edges, and vertices.
3 ft Name: 2 ft # of Faces	s: # of Edges:	# of Vertices:
Solution   3.	4. A• B•	5.
Name the shape of each cross see	ction.	
6.	7.	8.

## For #9-12, draw and label the dimensions of the described cross section. Then find the area of the cross section.

Then find the dred of the cross section.	
<b>9.</b> parallel to the base of the triangular prism.	<b>10.</b> perpendicular to the base of the cone and
Drawing: 5 in.	intersects the vertex Drawing:
Area: 3 in.	Area:
<b>11.</b> parallel to the base of the cylinder	<b>12.</b> perpendicular to the base of the cylinder
Drawing:	through the diameter of the base. <u>Drawing:</u> 3 cm 4 cm
Area:	Area:
Review:	
13. The ratio of the measures of the angles of a triangle is 3:4:5. Find the measures of all the angles of the triangle.	14. A circle has a radius of 20 inches. Find the circumference of the circle.
15. Find the value of $x$ to the nearest tenth.	16. Find the area of the figure below.
	4 ft 3.5 ft 6 ft

Geometry B 11.2 Nets and Surface Area	<b>ASSIGNMENT</b>	Name Hour D	ate
1 Draw the net for the solid below	I shal ALL dimensions		
Then find the surface area using t	the net.		
		Surface A	rea =
2. Rachael needs to wrap a package The rectangular package measure Draw a net of the package. <u>Labe</u> Then determine how much wrapp	to ship to her aunt. es 2 inches high, 10 inches l el ALL dimensions. ping paper Rachel needs to o	ong, and 4 inches wi	de.
			<sup>2</sup> 0
	Amount of	wrapping paper need	ed =









7. The volume of a pyramid is 216 cubic inches. The pyramid's height is 18 inches Find the area of	8. The volume of a pyramid is 120 cubic meters, and the area of the base is 50 square meters. Find
the base.	the height of the pyramid.
Area of base =	Height =
9. Find the value of <i>x</i> in the triangle below.	10. Find x so that $\overline{LM} // \overline{AB}$ .
N	
16	6 8 x
12 10	4 <sup>L</sup> /M
	A <sup>∠</sup> B
11. If $m \ge 1 = 3x - 2$ and $m \ge 2 = 2x + 7$ .	
o find x	B
b. find $m \angle 1$ c. find $m \angle 2$	$A \left( \begin{array}{c} 1 \\ J \end{array} \right) C$
d. find $mAB$ e. find $mBC$	

Geometry B	
11.5 Surface Area and	Volumes of Spheres

Name \_\_\_\_\_ Hour \_\_\_\_\_ Date \_\_\_\_\_

## **ASSIGNMENT**

## For #1-4, find the indicated values.

Round values to the nearest hundredth if necessary.

	2. <u>36 m</u>
Surface Area = Volume =	Surface Area = Volume =
3. 4.5 in.	4. A sphere has a volume of $288\pi$ in <sup>3</sup> . Find the radius of the sphere.
Volume =	Volume =
5. Suppose a sugar cone is 10 centimeters deep and h ice cream with a diameter of 4 centimeters rest on top	as a diameter of 4 centimeters. A spherical scoop of p of the cone.
a. Find the volume of the cone.	b. Find the volume of the scoop of ice cream.
Volume =	Volume =
d. If the cone does not overflow, what percent of the	cone will be filled?

## **Review:**









8. Refer to the following similar prisms.	
a. If the height of the larger prism is 20 units, what is the height of the smaller prism?	15
b. If the volume of the larger prism is 1200 units <sup>3</sup> , what is	the volume of the smaller prism?

**Review:** 

Find the volume of each figure. Round values to <u>2 decimal places</u> if necessary.

