Name_

Unit 4 - Chapter 12 & 14 Review

Terms that you should know:

🗆 Ve	cute An otuse A ljacent ertical	ngle	 Righ Acut Obtu Scale 	blementary A t Triangle e Triangle use Triangle ene Triangle reles Triangl	e		Equilateral Tria Equiangular Tri Trapezoid Kite Parallelogram Rhombus	-	 Rectangle Square Scale Scale Factor Legs Hypotenuse 	
Formul	las tha	t you should kno	W:							
Area o rectang				Area of a parallelog	ram = _			Area of a triangle =	=	
Area o trapezo			_	Circumfer	rence =			Area of a circle =	=	
				Volume of a prism	Volume of a prism =				Volume of a pyramid =	
Volum of a cy		=		Volume of a cone =	=			Volume of a Sphe	ere =	
Pythag	gorean	Theorem:			Distanc	e For	mula:			
Comple	ete the	following:					٨			
1)	Whic	h statement des	cribes the	e triangle sl	hown b	oelow	20°			
	a)	It is isosceles a	and acute		c)]	It is s	calene and acut	e.		
	b)	It is isosceles a	and obtus	e.	d)]	It is s	calene and obtu	ise.		

- 2) Which of the following are always congruent?
 - a) adjacent angles c) complementary angles
 - b) vertical angles d) supplementary angles

Tell whether the angles are *adjacent* or *vertical*. Then find the value of *x*.





4)

6)

Find the value of *x*. Then classify the triangle. <u>Show all algebraic work</u>.

5) x° 32° 63°



Classify the quadrilateral.





Find the value of *x*. <u>Show all algebraic work</u>.





11) Find the missing dimension. Use the scale factor 1 : 15.

Item	Model	Actual			
Tree	Height: <u>?</u> ft	Height: 30 ft			
Door	Height: 10 in.	Height: <u>?</u> in.			

Tell whether the triangle with the given side lengths is a right triangle. SHOW ALL WORK.



Find the distance between the two points. SHOW ALL WORK.

14) (2, -4), (3, -1) 15) (3, 2), (7, 5)

16) On the Junior League baseball field, you run 60 feet to first base and then 60 feet to second base. You are out at second base and then run directly along the diagonal to home plate. Find the total distance that you ran. Round your answer to the nearest tenth.

Find the volume of the solid. <u>SHOW ALL WORK.</u> Round your answer to the nearest tenth.





Find the surface area of the solid. <u>SHOW ALL WORK.</u> Round your answer to the nearest tenth.







The solids are similar. Find the missing dimension,



The solids are similar. Find the surface area or the volume of the larger solid. Round your answer to the nearest tenth.

29) Volume = 250 mm^3





30) Surface Area = 130 ft^2

