Student: Date:		Instructor: Deb Wertz Course: MAP102 MASTER	Assignment: Homework #16	
1.	Solve the equation for y. x + y = 9			
	y =			
2.	One number is 2 times a first number. 208, find the numbers.	A third number is 100 more than the first	number. If the sum of the three numbers is	
	The three numbers are	. (Use a comma to separate answers as	s needed.)	
3.	Solve the formula for the specified var	iable.		
	y = dg for d			
	d =			
4.	Solve 7x – 6y = 19 for y.			
	y = (Use integers or	fractions for any numbers in the expression	on.)	
5.	Solve P = 2G + 2M for G.			
	G =			

6. A woman works at a law firm in city A which is about 70 miles from city B. She must go to the law library in city B to get a document. Find how long it takes her to drive round-trip if she averages 50 mph.

Translate the sentence into an equation. Use the distance formula, d = rt, where d = distance traveled, r = rate, and t = time. Fill in the blanks below.

	Distance (round-trip) equals rate or speed • time $\downarrow \qquad \downarrow \qquad$					
	What is the first step in solving the resulting equation for t?					
	 A. Add 50 to both sides of the equation. B. Multiply both sides of the equation by 50. C. Divide both sides of the equation by 50. D. Subtract 50 from both sides of the equation. 					
	Divide both sides of the equation by 50 and simplify. 140 = 50t $= t$ (Type an integer or a decimal.) Interpret the result.					
	It takes her approximately hours and minutes to drive round-trip. (Type a whole number.)					
7.	A package of floor tiles contains 26 one-foot-square tiles. Find how many packages should be bought to cover a square ballroom floor whose side measures 67 feet. Note: Partial packages cannot be bought.					
8.	The formula for the volume of a cylinder is $V = \pi r^2 h$. The cylinder to the right has an exact volume of 480π cubic meters. Find its height.					
	The height of the cylinder is (1) (Simplify your answer.)					
	 (1) ○ m. ○ sq m. ○ cu m. 					

9.	The formula for the volume of a sphere is $V = \frac{4}{3}\pi r^3$, where r is the radius of the sphere. The steel ball to the right is in the shape of a sphere and has a diameter of 30 millimeters. a. Find the exact volume of the sphere. b. Find a 2-decimal-place approximation for the volume.	d=30 mm
	a. The exact volume of the sphere is (1) (Simplify your answer. Type an exact answer, using π as needed.)	
	 b. The 2-decimal-place approximation for the volume is	
	(1) ○ mm. (2) ○ sq mm. ○ cu mm. ○ mm. ○ sq mm. ○ cu mm.	

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2. 54,27,127
$3. \frac{y}{g}$
4. $\frac{7x - 19}{6}$
$5. \frac{P-2M}{2}$
6. 140
50
C. Divide both sides of the equation by 50.
2.8
2
48
7. 173
8. 30
(1) m.
9. 4500π
(1) cu mm.
14,137.17
(2) cu mm.