	Calculate the future value of \$1000 invested for 3 years at 6% per annum, compounded quarterly.	For a 6% annual interest rate, what rate of interest would you pay every quarter (i.e., compounded quarterly)?
1)	Recall: $FV = PV(1 + i)^n$ , where PV is the present value (or principal), <i>i</i> is the annual interest rate, and <i>n</i> is the number of compounding periods.	If you have invested some money for 3 years, where the interest is compounded quarterly, how many compounding periods will there be?

Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might	Example (Provide another example and solve it)
be helpful for others to remember?)	





Math Concept (Name?)	Solution (Solve it!)
	(chart continues on next page)

Date:

Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)



Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

	To book a private room at a restaurant, it costs \$60. For each	Solve each equation.		
4)	can you invite?	a) $200 = 10n + 60$	b) $x + x + 7 + x + 8 = 27$	
		c) $b^2 = 36$	d) $3 + 2x = 4x - 3$	

Solution (Solve it!)
Example (Provide another example and solve it)





## MAP 4C Diagnostic: Are You Ready for This? Name: \_\_\_\_\_ Date: \_\_\_\_\_

Math Concept (Name?)	Solution (Solve it!)
be helpful for others to remember?)	Example (Provide another example and solve it)

	You fold a piece of paper in half, and then pass the folded sheet	NAME:
	along to someone else in the class. They take the folded sheet and fold it in half, and then pass it along to someone else in the class. This process is repeated for the number of students in the	i) Evaluate the following power of 2: 2 <sup>16</sup>
	class.	ii) Simplify the following expression to a single power of 2. As it
6)		stands right now, there are three powers of 2 in the expression.
	Write a <i>power</i> that represents the number of rectangles you'd	Your answer is to have only one.
	expect to see if you unfolded the piece of paper following the	$2^3 \times 2^4$
	class' participation. How many small rectangles are there?	27

Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_

	Last year, Mr. Stewart planted $\frac{1}{2}$ of his garden	Evaluate:		
7)	with potatoes. This year, only $\frac{1}{3}$ of last year's half was used for growing potatoes. This year, what fraction of Mr. Stewart's garden was used for growing potatoes?	a) $\frac{1}{2} \times \frac{1}{3}$	b) $\frac{1}{2} \times \frac{2}{3}$	c) $\frac{3}{2} \times \frac{2}{3}$

Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might	Example (Provide another example and solve it)
be helpful for others to remember?)	

	A car travels 78 km in 45 minutes. At this speed, how far would it	Solve each proportion.	
8)	travel in one hour?	a) $\frac{75}{45} = \frac{d}{60}$	b) $\frac{75}{0.75} = \frac{d}{1}$

Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

(#9 on next page)



Date: \_\_\_\_\_



Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

## MAP 4C Diagnostic: Are You Ready for This? Nam

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_

	Classify the following gr other.	aphs as linear, quadratic, exponential, or	Classify the following e or <i>other</i> .	equations as linear, quadro	atic, exponential,
			y = 2x	y = 2sinx	$y = 2^x$
10)			$y = x^2$		

Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

	If 1 yard = 3 feet, then			
		Convert each m	easurement into	o feet and inches.
11)	i) 1 yard <sup>2</sup> = ?			
		a) 12 inches	b) 18 inches	c) 98 inches
	11) 1 yard <sup>3</sup> = ?			

Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

Date: \_\_\_\_\_



Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

## Date:



(#12 continues on next page)

## MAP 4C Diagnostic: Are You Ready for This? Name: \_\_\_\_\_ Date: \_\_\_\_\_

Math Concept (Name?)	Solution (Solve it!)
Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)

Date:



Math Concept (Name?)	Solution (Solve it!)

Details (What's important about <i>how</i> you solved the problem? What might be helpful for others to remember?)	Example (Provide another example and solve it)



Name: \_\_\_\_\_ Date: \_\_\_\_\_

MAP 4C	Diagnostic: Are You Ready for This?	Name:	Date:
--------	-------------------------------------	-------	-------

Solution (Solve it!)
Example (Provide another example and solve it)

MAP 4C	Diagnostic: Are You Ready for This?	Name:	Date:
--------	-------------------------------------	-------	-------