Lesson Plan				
Grade: 9th		Subject: Algebra 1		
Materials: Notes packet, worksheet		Technology Needed: None needed, I will need the projector to project		
		the notes on the board to fill in with the students.		
Instructional Strategies:		Guided Practices and Concrete Application:		
Direct	instruction	Large group activity Hands-on		
Guide	d practice cooperative learning	Independent activity Technology integration		
Socrat	tic Seminar Visuals/Graphic organizers	Pairing/collaboration Imitation/Repeat/Mimic		
🗆 Learni	ing Centers D PBL	□ Simulations/Scenarios		
Lectur	re Discussion/Debate	□ Other (list)		
🗆 Techn	ology integration Dodeling	Explain:		
🗆 Other	(list)			
Standard/c		Differentiation		
Standaru(S	)	Below Proficiency:		
6 RP 3a Fin	d a percent of a quantity as a rate per 100 Solve problems	below i fonciency.		
involving fi	nding the whole, given a part and the percent	The students who are below proficiency will only have one		
		worksheet that they will be assigned. They also will receive a little		
Objective(	s)	more help when doing the worksheet to get them to proficiency.		
_		Alterna Des fisionen		
The studen	its will, by the end of the lesson, use percentages to solve and find parts of the proportion to find the percentage	Above Proticiency:		
P. 55/CI115 d		The students who are above proficiency will have another		
Bloom's Ta	axonomy Cognitive Level:	worksheet to do if they get through the first worksheet as time		
		allows. They also will help the students who are below proficiency		
Apply		if they need help.		
		Annroaching/Emerging Proficiency:		
		, pp. oddini, g. zmei ging i rondiener).		
		The students who are approaching proficiency can ask the		
		students who are above proficiency for help and if they still have		
		questions they can ask me for help.		
		Modalities/Learning Preferences:		
		Existential. Verbal/Linguistic. Visual/Spatial. Bodily/Kinesthetic. &		
		Interpersonal		
Classroom	Management- (grouping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to the		
		lesson, rules and expectations, etc.)		
The studen	its have assigned seats. The seating is arranged in such a			
way that limits the amount of distractions for each student so that they		The students will know the classroom procedures and will know to		
can learn to	o the best of their ability. The students also know where the	come into class and sit down and wait till everyone is in class and then		
calculators	are in the classroom so that when they need them they can	and the other students at all times		
quietiy wai	k over and get one.	and the other students at an times.		
Minutes	Procedures			
_	Set-up/Prep:			
0	The students will have the notes packet and I will have the w	vorksheets printed so that when we get done with the lesson I can hand		
	Engage: (opening activity/ anticipatory Set – access prior le	arning / stimulate interest /generate questions, etc.)		
	Does anybody know what a percentage is? Where have you	seen percentages before? A percentage is a ratio that had 100 as the		
<b>3-5</b> denominator. Another way to think of it is percentage means out of 100.		is out of 100.		
	Explain: (concepts, procedures, vocabulary, etc.)			
	1. When solving problems with percentages we can t	hink of the problem as a proportion. The proportion is $\frac{lS}{of} = \frac{\%}{100}$ .		
20-25	2. When we are given a problem it will usually have two of the three parts of the proportion. it will have either the "is" and			
	"of", the "is" and %, or the "of" and %.			
	3. Once we read the problem and figure out which pa	arts are given to us we can set up the proportion and solve it.		
	4. For our first example we have "What percent of 42	is 28?" So we have the "is" and the "of" so putting that into the		
	proportion we have $\frac{28}{28} = \frac{x}{28}$ . We then cross multi	ply and we get $2800 = 42x$ , then we divide by 42 and we get $x =$		
	42 - 100	$p_{ij}$ and the periods $p_{ij}$ then we divide by $\pm 2$ and we per $\lambda =$		
	00.0770			

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	5. For example 2 we have "What percent of 48 is 18?" We again have the "is" and "of" so the proportion is $\frac{18}{48} = \frac{x}{100}$ again we			
	cross multiply and we get $1800 = 48x$ , then we divide by 48 and we get $x = 37.5\%$			
	6. For example 3 we have "What is 75% of 180?" This time we have the & and the "of", so we set it up as $\frac{n}{100} = \frac{75}{100}$ . Now we			
	cross multiply and we get $100n = 13500$ , nest we divide by 100 and we get $n = 135$			
	7. For example 4 we have "What is 40% of 720?" We have the "of" and % so we again have $\frac{n}{720} = \frac{40}{100}$ . We cross multiply and			
	get $100n = 28800$ , then we divide by 100 and get $n = 288$ .			
	8. For example 5 we have 55% of what humber is 231? This time we have the is and the % so we set it up like this $\frac{231}{231} = \frac{55}{231}$ . Next we cross multiply and get 23100 = 55x, then we divide by 55 and we get $x = 420$ .			
	$x = 100^{-1}$ (10 for the second se			
	9. For example 6 we have "165% of what number is 132?" we again have the "is" and the % so we have $\frac{1}{x} = \frac{1}{100}$ . We cross			
	$\frac{1}{1}$			
experiences, reflective questions, probing or clarifying questions)				
20				
	I will now hand out the worksheet that they will work on for the rest of class and if they do not get it done they will have it for			
	homework and the next day we will go over any questions that they have on it. During class the students will be encouraged to work			
	in small groups, but if they want to work alone they are welcome to.			
	Review	(wrap up and transition to next activity):		
2-3				
	If the students finish their worksheet before class is over they will hold on to them until the day of the test. If they do not get it done			
	by the end of class they will do it for homework and need it done by the test. We will go over the homework the next day to see if			
	there ar	e any questions.		
Formative	Assessme	nt: (linked to objectives)	Summative Assessment (linked back to objectives)	
Progress monitoring throughout lesson- clarifying questions, check-			End of lesson:	
in strategies, etc.			The students will have a homework worksheet that they will have to do	
			that will be graded at the end of the lesson.	
During the time for working on their own I will walk around the room				
and asking the students questions to make sure they are on the right			If applicable- overall unit, chapter, concept, etc.:	
track of learning. Two days after the lesson is taught the students will have an exit ticket that they will have to complete an comprehension of			At the end of the chapter the students will get a test that will be graded	
the topic that was taught.			and recorded.	
Consideration for Back-up Plan:		Back-up Plan:		
Reflection	(What we	nt well? What did the students learn? How do you l	know? What changes would vou make?):	
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