Monday 12/04/2023	Tuesday 12/05/2023	Wednesday 12/06/2023	Thursday 12/07/2023	Friday 12/08/2023
7th Grade **2.4 - The Percent Equation** **Learning Target** *Students will be able to solve problems involving percentages using the percent equation.* **Standards** 7.RP.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error. 7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making $25 an hour gets a 10% raise, she will make an additional 1/10 of her salary	7th Grade **2.4 - The Percent Equation** **Learning Target** *Students will be able to solve problems involving percentages using the percent equation.* **Standards** 7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making $25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or $2.50, for a new salary of $27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.	7th Grade **2.5 - Percent of Change** **Standards** 7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making $25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or $2.50, for a new salary of $27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation. 7.RP.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and	7th Grade **2.5 - Percent of Change** **Standards** 7.RP.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error. 7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making $25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or $2.50, for a new salary of $27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place	**No School Day** **No School Day**

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7.RP.2 Recognize and represent proportional relationships between quantities.

Instruction

Warm Up: #51
Vocab: percent equation (a = pw)
1st Period:
- real world practice day
- use Quizizz to have the students answer
- walk through 5 problems as a class (highlighting and finding each part)
- if finished early, students are to complete and work on 2.4 McGraw Hill extra practice
3rd Period:
-Finish NWEA Testing, since it quit working last week

Assessment

None

8th Grade

3.7 - Solving Systems by Graphing

Learning Target

7.RP.2 Recognize and represent proportional relationships between quantities.

7.RP.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

Instruction

Warm Up: #52
Vocab: part, percent, whole, a = pw
- use 2.4 Real World Packet as practice problem (set up 6 problems as a class)
- take 2.1 and 2.4 Quiz (Google Forms - found in 7th Grade folder)
- when finished, watch 2.5 EDPuzzle and finish Got It ?'s

Assessment

2.5 EDpuzzle

8th Grade

3.7 - Solving Systems by Graphing

Learning Target

Students will be able to write and solve a systems of equations by graphing.

Standards

8.EE.8b Solve systems of two linear equations in two

markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

Instruction

Warm Up: #53
Vocab: percent of increase/ decrease, percent of change, percent of error
- Think, Pair, Share: Real World Link p. 143 (intro video)
- check Got It ?'s
- show examples of $240 increased by 5% or decreased by 20%
- play Risk (split into groups of 4)
- use random Independent and Extra Practice problems

Assessment

None

8th Grade

3.8 - Solving Systems Algebraically

Learning Target

Students will be able to solve a system of linear equations algebraically.

Standards

8.EE.8 Analyze and solve pairs of simultaneous linear equations.

8.EE.8b Solve systems of two linear equations in two variables algebraically, and estimate solutions by

the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.

Instruction

Warm Up: #54 - Talk About It Thursday
Vocab: percent of increase/ decrease, percent of change, percent of error
- I'm Lovin' It Activity
- students find the percent of change from McDonald's prices from 1950 and 1970 compared to now
- pass out laminated menu's
- rest of the class to work on it

Assessment

I'm Lovin' It Activity (McDonald's prices)

Today's McDonalds Prices: http://www.fastfoodprice.com/menu/mcdonalds-prices/

8th Grade

3.8 - Solving Systems Algebraically

Learning Target

Students will be able to solve a system of linear equations algebraically.

Standards

8.EE.8 Analyze and solve pairs of simultaneous linear equations.

Students will be able to write and solve a systems of equations by graphing.

Standards

8.EE.8a Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.

8.EE.8 Analyze and solve pairs of simultaneous linear equations.

Instruction

Warm Up: #53
Vocab: systems of equations, slope-intercept form, standard form
- class practice on setting systems of equations up (5 examples)
- students will then complete the 3.7 Real World Practice
- we will complete the example problem in the packet together, so the students understand what is expect for each problem. For each of the 5 problems, students will need to:
  - Define the x and y variable.
  - Write two equations to create a system.
  - Make sure the equations are written in slope-intercept form.

variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, 3x + 2y = 5 and 3x + 2y = 6 have no solution because 3x + 2y cannot simultaneously be 5 and 6.

8.EE.8a Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.

8.EE.8 Analyze and solve pairs of simultaneous linear equations.

Instruction

Warm Up: #54
Vocab: system of equations, slope-intercept form, standard form
- The students will have the rest of the class period to complete the 3.5 - 3.8 Quiz. The following topics/skills will be on the quiz:
  - Graphing linear equations written in slope-intercept form
  - Write an equation of a line in slope-intercept form when given an ordered pair and the slope
  - Write an equation of a line in slope-intercept form

graphing the equations. Solve simple cases by inspection. For example, 3x + 2y = 5 and 3x + 2y = 6 have no solution because 3x + 2y cannot simultaneously be 5 and 6.

8.EE.8c Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.

Instruction

Warm Up: #54
Vocab: system of equations, substitution method, elimination method
- pass out the Solving Systems Note Guide to each student
- show the students how to solve systems of equations using either the substitution or elimination method
- If there is time at the end of the lesson, students will be able to start on the 3.8 Go formative (due Tuesday)

Assessment

3.8 Go Formative (due Tuesday)

Dan Meyer's 3 Act Math: http://www.101qs.com/3199

8.EE.8.b Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For an inspection example, 3x + 2y = 5 and 3x + 2y = 6 have no solution because 3x + 2y cannot simultaneously be 5 and 6.

8.EE.8.c Solve real-world and mathematical problems involving leading to two linear equations in one and/or two variables.

Instruction

Warm Up: #56 - Talk About It Thursday
Vocab: system of equations, substitution method, elimination method
- using note guide, do 4 examples as a class
- after examples, give the rest of the time to work so that students may ask questions and get extra help

Assessment

continue work on 3.8 Go Formative (due Tuesday)

• Graph the system. • Find the solution and interpret it. - The packet will be due on Wednesday. **Assessment** ***Word Problem Practice Packet (due Wednesday)***	when given two ordered pairs • Solve a system of equations by graphing • Creating a linear equation (when given one linear equation) that would create a system with one solution, no solution, or infinitely many solutions - students can then continue their work on the 3.7 Real World Practice when finished **Assessment** ***Finish 3.7 Word Problem Packet***	Dan Meyer's 3 Act Math: http://threeacts.mrmeyer.com/playingcatchup/