

NAME: _____ Translate WPs to equations/solve & review

RANDOM PARTNER IN-class work 2023 **Calculator can be used with work.**

- Do not have your variable alone on the right or left side of the equal sign to start.
- **LABEL AND BOX YOUR ANSWERS** ex. $p = 28$ grams

1	Zach earned d dollars at his job in February. During March, he earned \$98.22. At the end of both months he counted his money and saw that he earned a total of \$150.00. Write and solve an algebraic equation to help find the amount of dollars, d , Zach earned in February.
2	You read 60 pages of a magazine. This amount is $\frac{3}{5}$ of the total magazine. Write and solve an algebraic equation that can be used to find the total number of pages, p , in the magazine.
3	Celia has 6 times as many pounds of Mike and Ikes as her friend Henry has, h . Celia has 21 lbs. Create an equation and solve to find the number of pounds of Mikes and Ikes Henry has.
4	At the end of a baseball game, the players were given the choice of having a bottle of water or a box of juice. Of all the players, 12 chose the bottle of water, which was $\frac{3}{4}$ of the total number of players. Write and solve an algebraic equation to determine, p , the total number of players at the BB game.
5	Lucy charges \$8.75 per (each) hour to wash people's cars. Her goal is to earn exactly \$455 this summer. If h is the number of hours she must work this summer to reach her goal, create and solve an algebraic equation that will help you solve for the number of hours she needs to work.

6	You love to watch planes fly overhead. You saw 8 planes fly by overhead each day for a certain number of days, d . At the end of the time watching, you had seen 232 planes. Write and solve an algebraic equation that can be used to find the number of days that you watched planes fly overhead.
7	Logan bought 4 notebooks, totaling \$6.42. Create and solve an algebraic equation to help find the cost of one notebook, n . Do not have your variable on the right hand side by itself to start. Round your answer to the nearest hundredth (since that's the penny!)
8	A pizza was cut into equal slices. Ben ate 4 of the slices. The amount Ben ate was $\frac{2}{3}$ of the whole pizza. Create and solve an algebraic equation to find the total number of slices, t , that were in the full pizza.
9 This is the toughest one	Ellen has 18 neighbors. She wants to give each of her neighbors exactly 3 apples. How many apples must she have so each neighbor can get 3 apples? Create and solve an algebraic equation to determine the number of apples, a , that Ellen must start with. Do not have your variable alone on the right or left side of the equal sign to start.
10	On his first day of sales, Emilio earned \$26.50 selling lemonade. At the end of Day 2, he had a total of the two days of \$57.25 (Go Emilio!). If x represents the amount of money he made on Day 2, create and solve an algebraic equation to determine the amount Emilio earned on Day 2. Do not have your variable on the right hand side by itself to start.