Name_	Date
"Num	ber System, Expressions / Equations, & Ratios / Proportions (Short Response) Review"
1.	Nancy uses $3\frac{3}{4}$ pounds of white flour and $1\frac{5}{8}$ pounds of wheat flour for each batch of
	pasta. One week she uses a total of 86 pounds of flour. Part A
	Write an equation to solve for b, the number of batches of pasta that Nancy can make during the week.
	Equation
	David D
	Part B How many batches of pasta does she make?
	now many bateness of pasta about money
	Answer
2.	Maia and Rihana are stuffing bags for a charity. Rihana stuffed a total of 60 bags. This
	is 10 more than twice the number of bags that Maia stuffed.
	Part A
	Write an equation that can be used to find the number of bags, a, that Rihana stuffed.
	Equation
	Part B
	How many envelops did Rihana stuff?
	Answer

3.	Noah ordered Sweat Suits for the track team from two different Sweat Suit suppliers. One supplier charged \$16 for each Sweat Suit, as well as 5% for shipping. The other supplier charged \$18 for each Sweat Suit, plus 7% for shipping. Part A
	Noah ordered the same number of Sweat Suits from each supplier. Write two expressions to represent the shipping charges he paid to both suppliers. Use x to represent the number of Sweat Suits ordered.
	Expressions
	Expressions
	Part B
	The first supplier gave Noah a discount of 10% off of his order total. The second supplier gave him a discount of \$20 off of his order total. Write two equations to represent the total costs he paid to each supplier. Use x to represent the number of Sweat Suits ordered.
	Equation Equation Part C Noah ordered 15 Sweat Suits from each supplier. How much did he pay?
	Answer
4.	Amir had less than \$9 to spend when she went to the grocery store. She bough 1 pound of tomatoes and wanted to spend the rest of her money on potatoes. One pound of tomatoes costs \$2.40 and one pound of potatoes costs \$2.20. Part A
	Write an inequality to show how many pounds of potatoes, x, Amir can buy.
	Inequality
	Part B Solve the inequality above to find how many pounds of potatoes Amir can buy.
	Answer

Name_	Date
"Nu	mber System, Expression / Equations & Ratio / Proportions (Short Response) Review"
	Tye's employer deducts 20% in payroll and state taxes from his base salary before writing his paycheck. Tye's monthly paycheck is \$1,600.
	witting ins payencent type a memory payencent
	Part A What is Tye's salary before the deductions for payroll and state taxes?
	Answer
	Part B
	Part B Tye put $\frac{1}{5}$ of his paycheck into a savings account each month. How much does he save each month?
	each month:
	Answer
	<u>Part C</u> Next week Tye's employer is changing its pay scale and Tye's base salary will decrease
	8%. His employer will still deduct 20% for taxes. What will be his salary before deductions and how much will his paycheck be next month?

Answer_

2.	Leighanne is planning a school field trip to Valley Streams State Park. School policy requires a minimum of 2 adults as chaperones for every 9 students on the trip and allows a food budget of \$6 per person. Group pricing is \$4.50 per student and \$7.25 per adult. There is also a bus parking fee that is 4% of the total ticket price.
	Part A There are 171 students in the school. How much money does Leighanne need to budget for everyone's ticket and parking?
	Answer Part B What is the total budget for tickets, parking, and food for all students and chaperones to go on the field trip?
3.	Answer The dimensions of a rectangle are length $(x+\frac{4}{5})$ and width (x) Part A Write an expression representing the perimeter of the rectangle
,	Expression Part B Explain how the expression $2(2x + \frac{4}{5})$ is equivalent to the perimeter of the rectangle
	Part C The perimeter of the rectangle is $7\frac{3}{5}$ units. What is the value of x?
	Answer