Exploring Rates and Unit Rates

Lindsay delivers 232 newspapers in 4 hours. • How would I explain this information as a <u>rate</u>? If Lindsay determined her unit rate of newspaper delivery, what would she be calculating? How would I know when a <u>rate</u> is also a <u>unit rate</u>? How would I explain and demonstrate calculating the unit rate using the information shown below? 232 newspapers/4 hours newspapers/1 hour ? Comparing the two rates shown below, how might the unit rate be considered more useful? 232 newspapers/4 hours 58 newspapers/1 hour











I could use either solution to calculate Lindsay's *unit rate* for delivering newspapers.

$\frac{232}{2} = 232 \div 4$	
 4	
= 58	



Now, I'll use her *unit rate,* shown below, to solve some additional *rate* problems.

58 newspapers/hr

How many newspapers would

Lindsay deliver in 6 hrs?

• How could I solve using a mental math calculation to adjust the *unit rate?*

I could also solve using a proportion equation.

- How would I set up or <u>write</u> the *proportion*?
- How would I explain and demonstrate solving the *proportion?*







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Which statements do I feel confident explaining and demonstrating? Which statements do I <u>not</u> feel confident explaining and demonstrating?

 $\sqrt{1}$ can explain and write examples of a rate √ 1 can <u>explain</u> and <u>write</u> examples of a unit VI can <u>explain</u> and <u>demonstrate</u> how I use a rate rate to calculate a unit rate VI can <u>explain</u> and <u>demonstrate</u> writing a proportion equation to calculate a unit rate √ I can <u>compare</u> solving a proportion equation to calculating equivalent fractions VI can <u>explain</u> and <u>demonstrate</u> how I solve a proportion equation using algebra

