

## KEY CONCEPT OVERVIEW

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Lessons 17 through 19 focus on solving and creating multi-step word problems.

You can expect to see homework that asks your child to do the following:

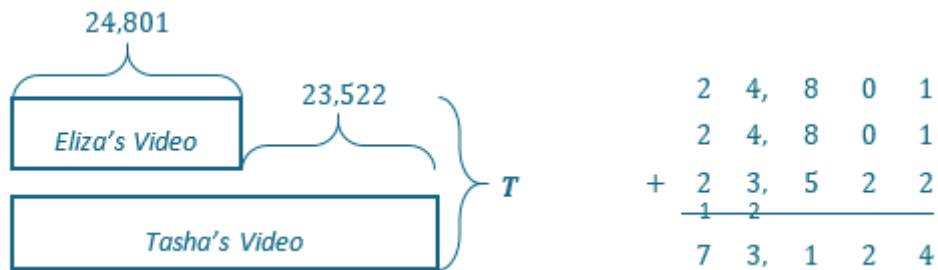
- Represent word problems with **tape diagrams**, using **variables** for the unknown numbers.
- Solve word problems and write answers as statements.
- Use rounding to check if the answers make sense.
- Create and solve word problems based on tape diagrams.

## SAMPLE PROBLEM (From Lesson 19)

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Using the diagram below, create your own word problem. Solve for the value of the variable.

Eliza’s video had 24,801 shares. Tasha’s video had 23,522 more shares than Eliza’s video. How many total shares did the videos have?



$$T = 73,124$$

***The videos had 73,124 total shares.***

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at [GreatMinds.org](http://GreatMinds.org).

**HOW YOU CAN HELP AT HOME**

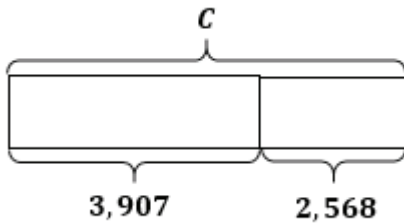
- Ask your child to restate each homework problem in her own words. Make sure she understands each problem before she begins to draw her tape diagram. After the tape diagram has been drawn, and before your child attempts to solve the problem, ask her to explain the tape diagram to you.
- As your child creates his own word problems, he may need help finding a context. Help him to think of realistic contexts that use large numbers (e.g., tickets to a concert, miles driven in one year, the cost of a new car, website ‘hits’, number of things made or sold).
- Let your child be the teacher. First, she should draw and label a tape diagram (using a variable for the unknown number). Next, she should prompt you to create a word problem based on the diagram. Finally, after you have created a problem and then solved it, she should check your answer.

**TERMS**

**Variable:** A letter that stands for a number. For example, in  $5 + 2 = V$ ,  $V$  is the variable.

**MODELS**

**Tape Diagram**



**Tape Diagram**

