NameProti	video Tools Games
Another Look! Last weekend Troy spent $\frac{3}{4}$ hour doing math problems. He took 3 times as long to finish his science project. Then he spent $1\frac{1}{4}$ hours writing an essay. How much time did Troy spend on these assignments?	Practice 8-9 Make Sense and Persevere Make sense of the problem and then plan how to solve it.
Tell how you can make sense of the problem.	First, you need to find the amount of time Troy spent on his science project.
I know that Troy spent $\frac{3}{4}$ hour doing math problems and 3 times as long on his science project.	$3 \times \frac{3}{4} = \frac{3}{1} \times \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$ hours Then add to calculate the total time.
He spent $1\frac{1}{4}$ hours writing an essay.	$\frac{3}{4} + 2\frac{1}{4} + 1\frac{1}{4} = 4\frac{1}{4}$ hours
Tell how you can persevere in solving the problem.	Troy spent $4\frac{1}{4}$ hours on the assignments.
I need to determine how much time Troy spent on the assignments.	

## **Make Sense and Persevere**

Debra's rectangular vegetable garden measures  $9\frac{1}{3}$  yards by 12 yards. A bottle of garden fertilizer costs \$14.79. If Debra needs to mix  $\frac{1}{8}$  cup of fertilizer with water for each square yard of her garden, how many cups of fertilizer does she need?

- 1. How can you make sense of the problem?
- **2.** Is there any information that is not needed to solve the problem?
- 3. How can you persevere in solving this problem? What is the answer?



Remember to check that your work

makes sense.

## Children's Costumes

Mrs. Lin is sewing costumes for her grandchildren. She is making three lion costumes, one zebra costume, and two bear costumes. Fabric costs \$7.49 per yard. How much fabric does Mrs. Lin need?

**4. Make Sense and Persevere** What do you know? What are you asked to find? Is there any information you do not need?

	Children's Costumes		
DATA	Costume	Fabric (yards)	
	Bear	$2\frac{1}{4}$	
	Lion	$1\frac{2}{3}$	
	Zebra	2 <u>5</u>	

- **5. Make Sense and Persevere** What do you need to find before you can answer the final question?
- **6. Model with Math** Write equations to represent the information you described in Exercise 5.

- 7. Make Sense and Persevere Solve the problem.
- 8. Construct Arguments Explain why your answer makes sense.

Remember that good problem solvers keep asking themselves if their work makes sense.

