sense? Expl in how you know whether or not Jake's

solution makes sense without solving the equation. Then

Study the example. Underline two parts that you think make it a particularly good answer and a helpful example.

## Example

Ling says that the solution to 8s = 2 is that s must be greater than 1. Does Ling's solution make sense? Explain how you know whether or not Ling's solution makes sense without solving the equation. Then draw a model of the problem and solve the equation.

Show your work. Use numbers, words, and models to explain your answer.

Ling's solution does not make sense. The expression 8s means to multiply 8 by s. If I multiply 8 by 1, I get 8, which is greater than 2. So the solution must be less than 1.

Silve details? I can draw a bar model to help me solve the problem.

	,						
5	5	5	5	5	5	5	5

The bar model shows that 8 times s gives me 2, so I can ask myself what number I could multiply by 8 to get 2. I know that the number is less than 1, so it must be a fraction.

The model shows that 8 bars represent 2, so 4 bars must represent 1. Therefore, each bar represents  $\frac{1}{4}$ .

The solution to 8s = 2 is  $s = \frac{1}{4}$ .

Where does the example ...

explain your answer.

- · use numbers to explain?
- · use words to explain?
- · use models to explain?
- · give details?



## Solve the problem. Use what you learned from the model.

Jake says that the solution to 8.5 - a = 5 is that a equals 13.5 because addition and subtraction are inverse operations and 8.5 + 5 = 13.5. Does Jake's solution make sense? Explain how you know whether or not Jake's solution makes sense without solving the equation. Then draw a model of the problem and solve the equation.

how you know whether or not Ling's solution makes sense Show your work. Use numbers, words, and models to explain your answer.

## Did you ...

greater thea. 1. Does Ling's solution make sense? Explain

Use numbers, words, and models to

- · use numbers to explain?
- · use words to explain?
- · use models to explain?
- · give details?

