







Additional Practice 6-6 Reasoning

Another Look!

Kim bought granola bars for the soccer team. Each granola bar cost \$0.89. She paid \$38.13, including \$0.75 for sales tax. How many granola bars did she buy?

Tell how you can use reasoning to solve the problem.

- I can write an equation to show relationships.
- I can give the answer using the correct unit.

Write an equation to find the total cost of the granola bars before tax.

$$$38.13 - $0.75 = $37.38$$

Divide to find the number of granola bars.

$$$0.89 \times ? = $37.38$$

89 cents
$$\times$$
 ? = 3,738 cents

$$? = 42$$

So, Kim bought 42 granola bars for the soccer team.

You can use reasoning to determine how the quantities are related.

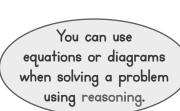


Reasoning

Over the summer, Mr. Patel refilled a bird feeder 24 times using 6 cups of seed each time. A bag of seed holds 32 cups. How many bags of seed did Mr. Patel use?

- 1. Describe one way to solve the problem.
- 2. Write an equation or draw bar diagrams to represent the problem.









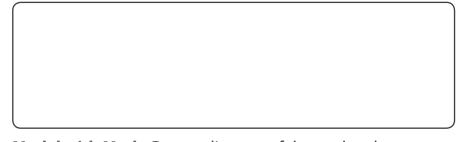


Greeting Cards

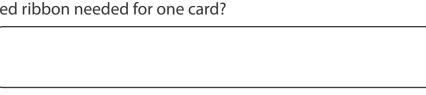
Jana is making greeting cards that are 4 inches long and 3.5 inches wide to sell at a craft fair. She decorates each card by putting a strip of red ribbon along the border all the way around the card. The table shows the amount of ribbon she has on hand.

TA	Ribbon	0	Length (inches)
DA	Gold		144
	Red		96
	Orange		152

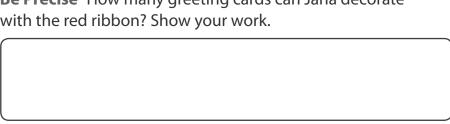
4.	Make Sense and Persevere Explain what each of the
	quantities means. Are all of the quantities given in the
	same units?



- **5.** Model with Math Draw a diagram of the card and show how it is decorated. Label the width and length of the card.
- **6. Reasoning** How could you determine the amount of red ribbon needed for one card?



7. Be Precise How many greeting cards can Jana decorate with the red ribbon? Show your work.



8. Critique Reasoning Jana decides to make some additional cards that are 7.5 inches long and 5 inches wide. She glues a strip of gold ribbon along each of the longer sides. She says that since $144 \div 7.5 = 19.2$, she can decorate 19 cards with gold ribbon. Do you agree? Explain.



Remember, you can use reasoning to find the amount of ribbon needed