

Eureka Math

3rd Grade Module 1 Lesson 20

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Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

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ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

Icons



Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



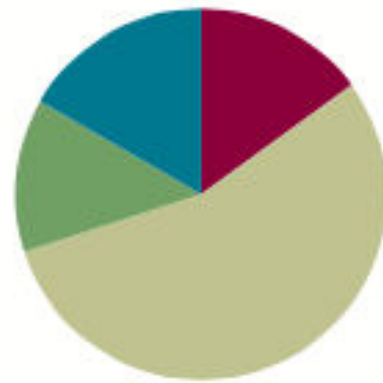
Small Group Time

Lesson 20

Objective: Solve two-step word problems involving multiplication and division, and assess the reasonableness of answers.

Suggested Lesson Structure

■ Fluency Practice	(9 minutes)
■ Application Problem	(8 minutes)
■ Concept Development	(33 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





I can understand solve two-step word problems involving multiplication and division, and assess the reasonableness of answers.



Skip-Count by 5

A

Number Correct: _____

Skip-Count by 5

1.	0, 5, __	
2.	5, 10, __	
3.	10, 15, __	
4.	15, 20, __	
5.	20, 25, __	

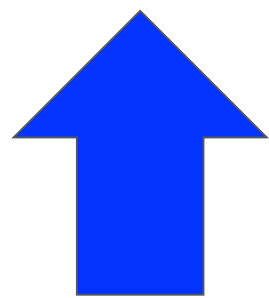
23.	35, __, 45	
24.	15, __, 25	
25.	40, __, 50	
26.	25, __, 15	
27.	50, __, 40	



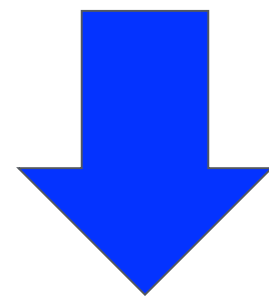
Skip-Count by 5

Count by **fours** to 40, hum/talk forward and backward.

(Hum as you think 1, 2, 3; say 4. Hum as you think 5, 6, 7; say 8, etc.)



Count up



Count down

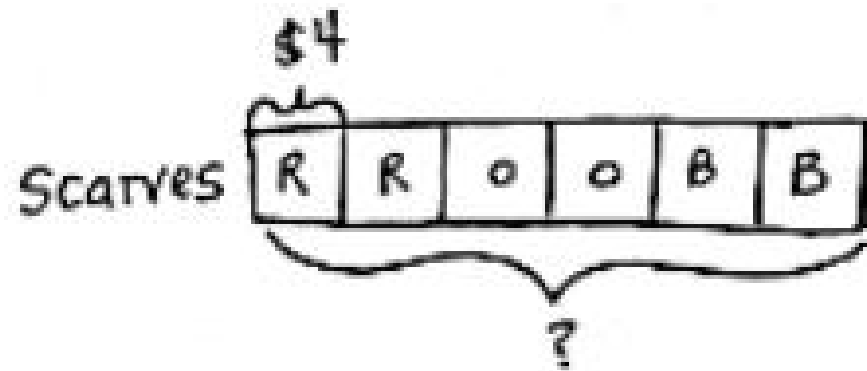
Application Problem

Red, orange, and blue scarves are on sale for \$4 each. Nina buys 2 scarves of each color. How much does she spend altogether?



Application Problem

Red, orange, and blue scarves are on sale for \$4 each. Nina buys 2 scarves of each color. How much does she spend altogether?



$$2 + 2 + 2 = 6 \text{ scarves}$$

$$6 \times \$4 = \$24$$

Nina spends \$24.





Model a two-step problem with tape diagrams

Red, orange, and blue scarves are on sale for \$4 each. Nina buys 2 scarves of each color. She also buys a hat that costs \$4. How much does she spend altogether.

Complete this new problem with the Application you just solved. What's different?



Model a two-step problem with tape diagrams



How can we use our answer from the
Application Problem to help solve the new problem?

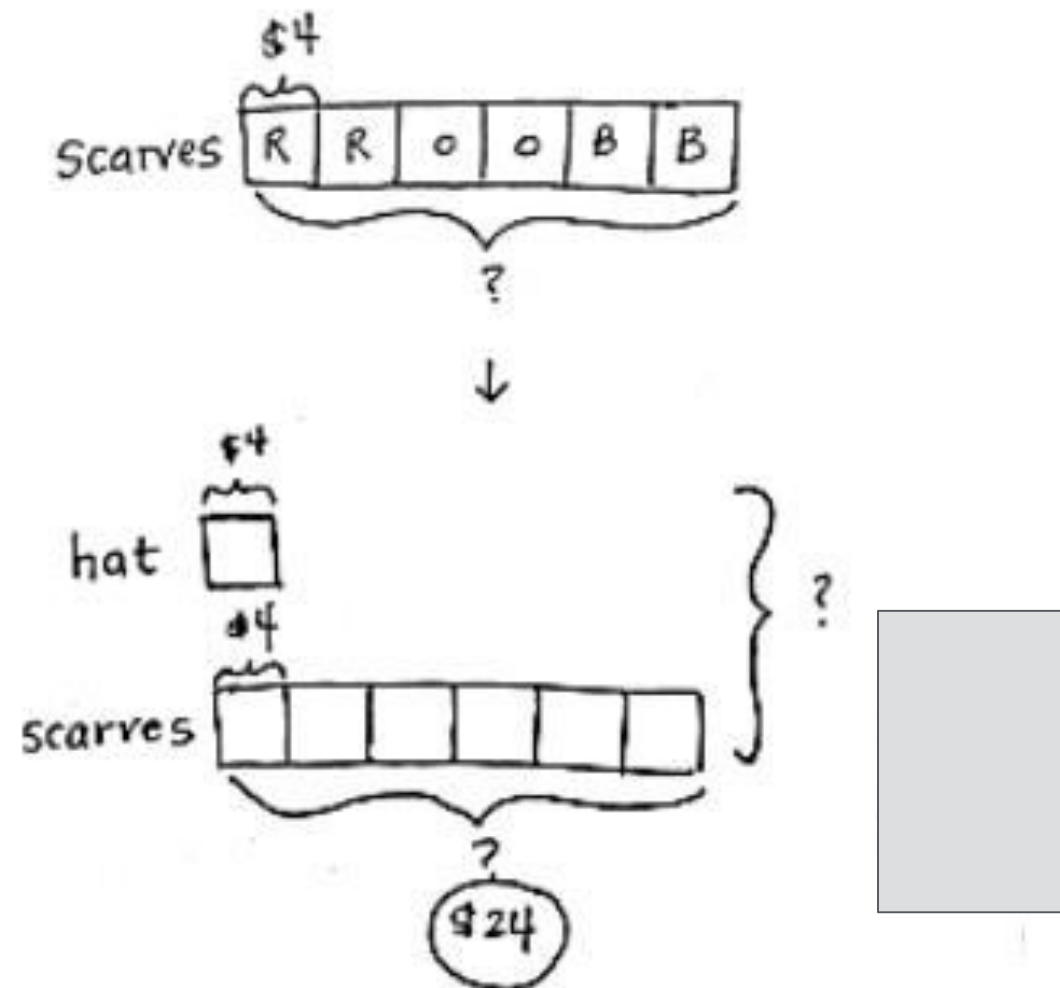


Model a two-step problem with tape diagrams

This tape diagram shows the Application Problem.

Each of these boxes is one unit. Tell me what one unit represents.

What is the value of 1 unit?



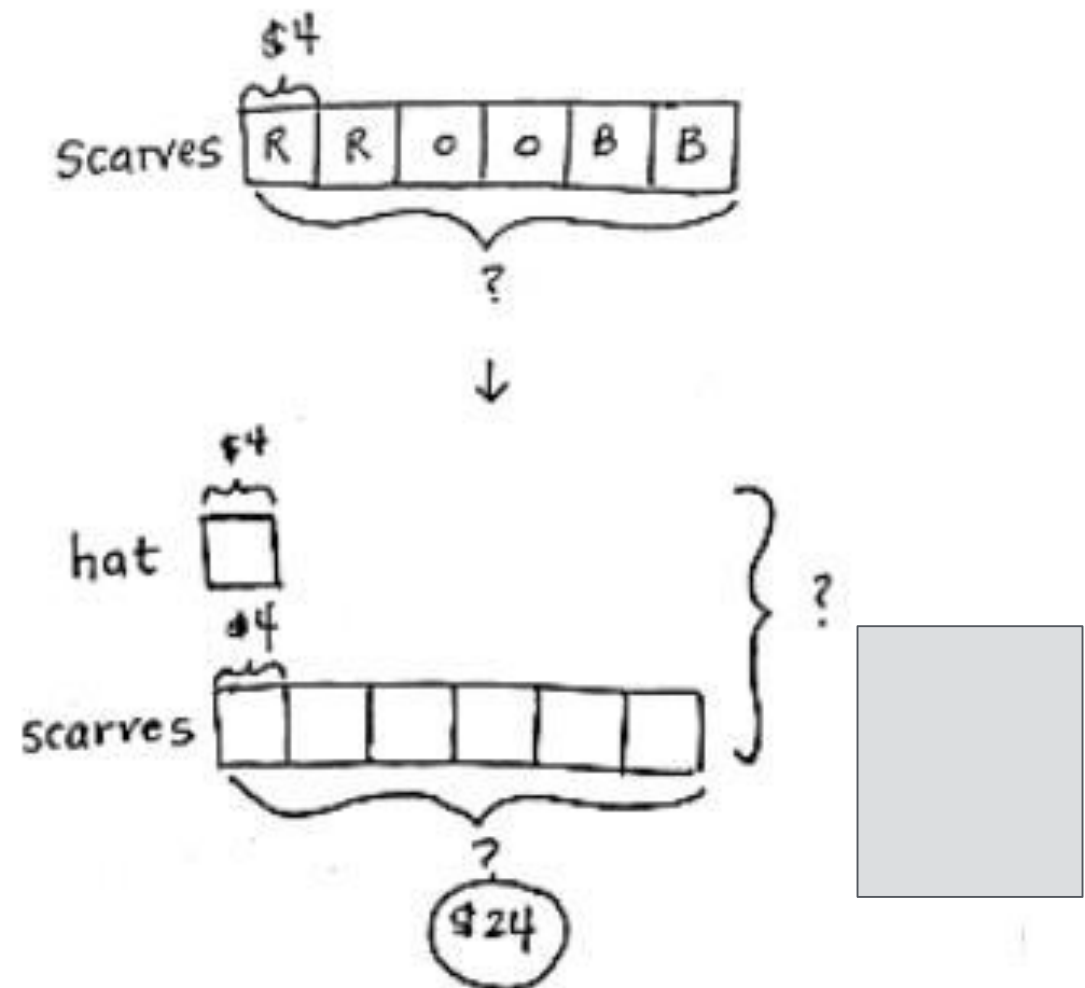


Model a two-step problem with tape diagrams

What do the 6 units represent?

How did you label the 6 units?

What equation did you find the total of all the items?



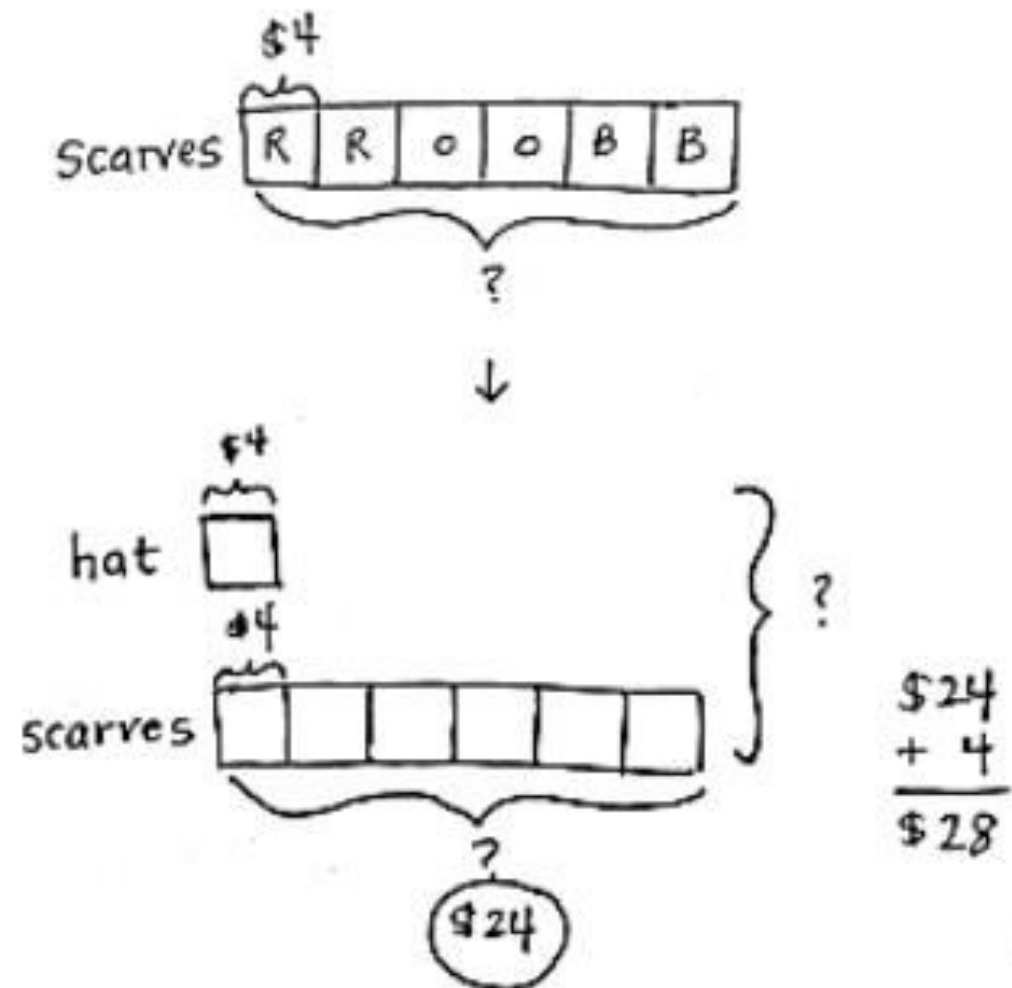


Model a two-step problem with tape diagrams

$$6 \times \$4 = \$24$$

Now, I add the cost of the hat, \$4, to the total cost of the scarves, \$24, which is...?

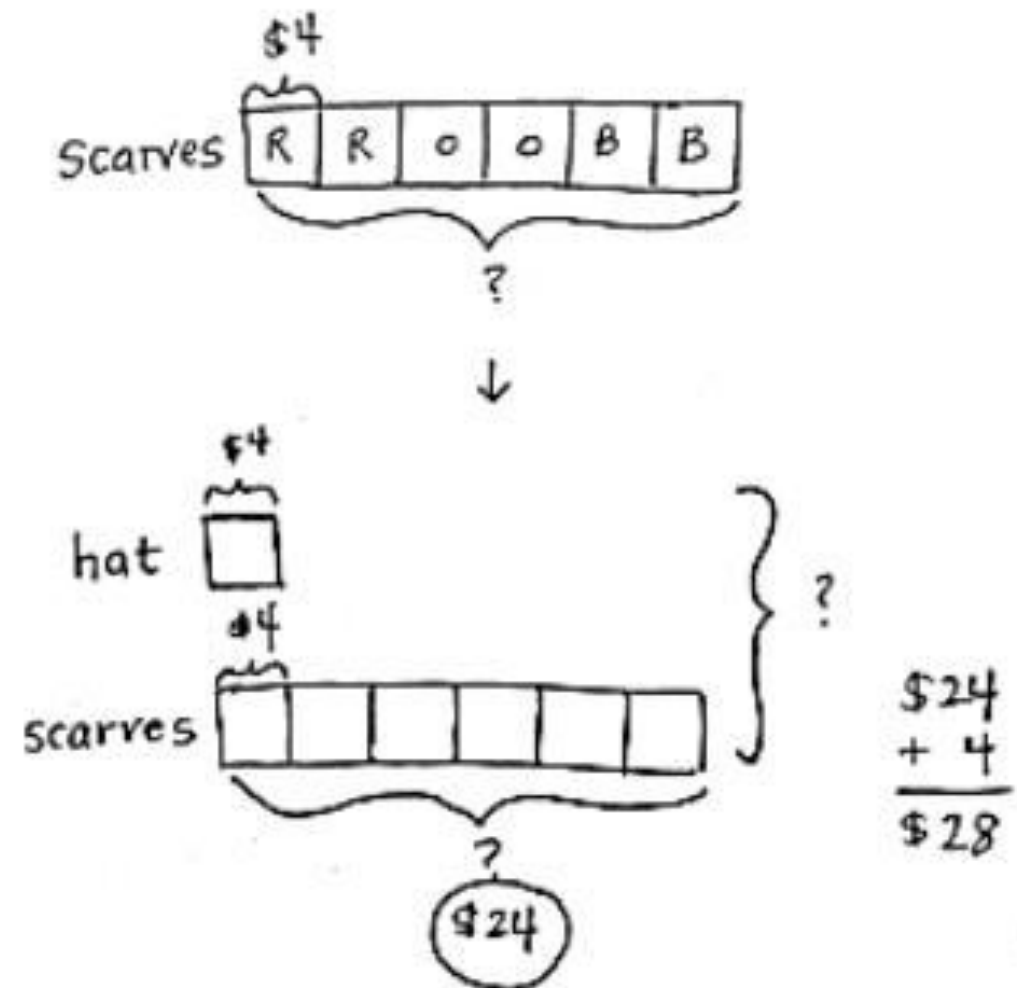
How many units did we add together to find the total of both items?





Model a two-step problem with tape diagrams

Tell your partner a multiplication sentence you could use to find the total cost of the scarves and hat without finding the value of the scarves first.





Model a two-step problem with tape diagrams

Mr. Lim buys 7 plants for his garden. Each plant costs \$5. The next day, he buys a rose bush that also costs \$5. How much more do the 7 plants cost than the rose bush?

What information is known from reading the story?

What information is unknown?

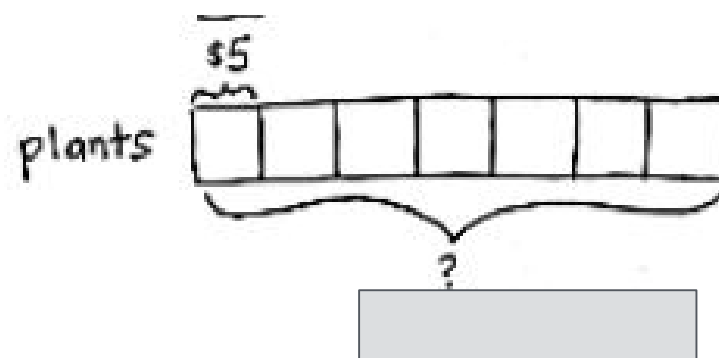


Model a two-step problem with tape diagrams

Mr. Lim buys 7 plants for his garden. Each plant costs \$5. The next day, he buys a rose bush that also costs \$5. How much more do the 7 plants cost than the rose bush?

Notice there are two unknowns in the problem. Let's first draw and label a tape diagram to model the unknown as the cost of the 7 plants.

Tell me how to find the cost of the plants.





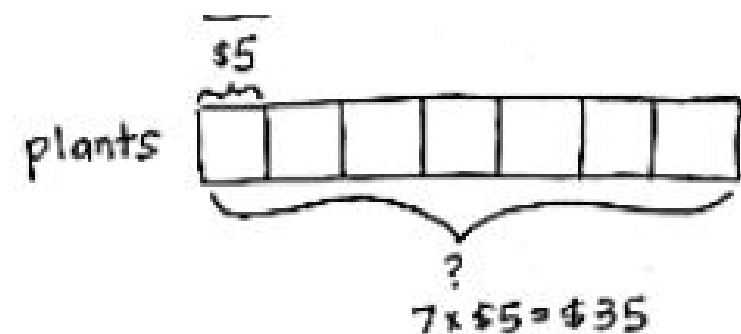
Model a two-step problem with tape diagrams

Mr. Lim buys 7 plants for his garden. Each plant costs \$5. The next day, he buys a rose bush that also costs \$5. How much more do the 7 plants cost than the rose bush?

The plant cost...

Have we answered the problem?

What is the question we are trying to answer?

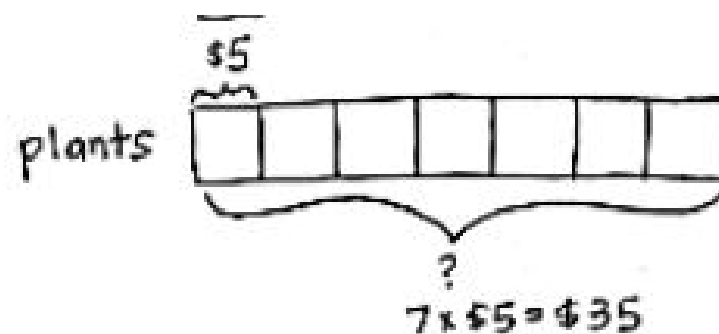




Model a two-step problem with tape diagrams

Mr. Lim buys 7 plants for his garden. Each plant costs \$5. The next day, he buys a rose bush that also costs \$5. How much more do the 7 plants cost than the rose bush?

Tell your partner what strategy you might use to answer the question.



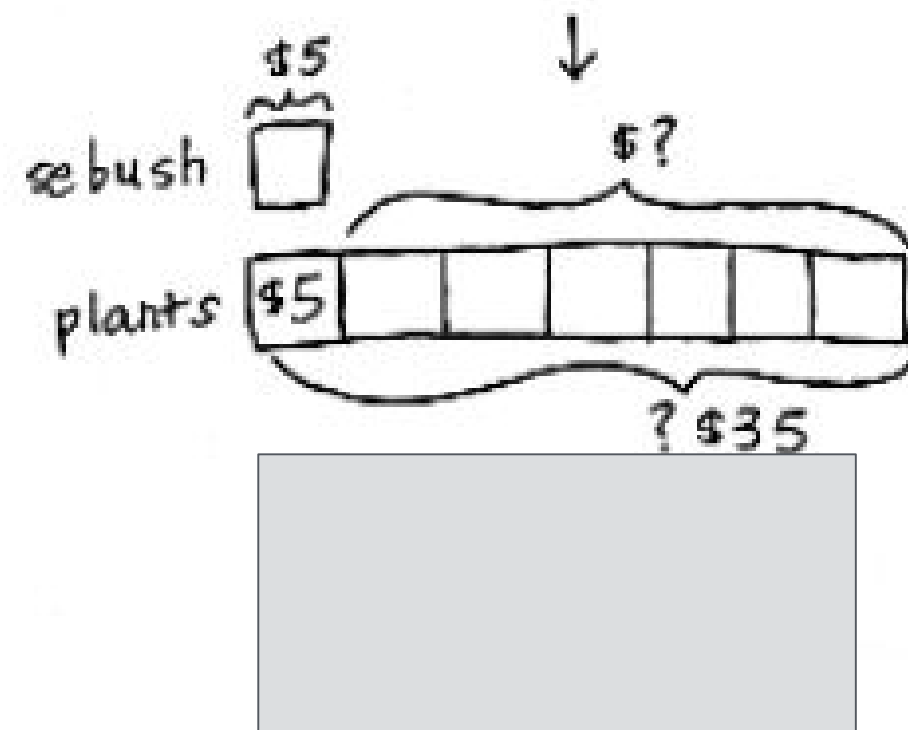


Model a two-step problem with tape diagrams

Mr. Lim buys 7 plants for his garden. Each plant costs \$5. The next day, he buys a rose bush that also costs \$5. How much more do the 7 plants cost than the rose bush?

Write an equation and solve the problem on your personal white board.

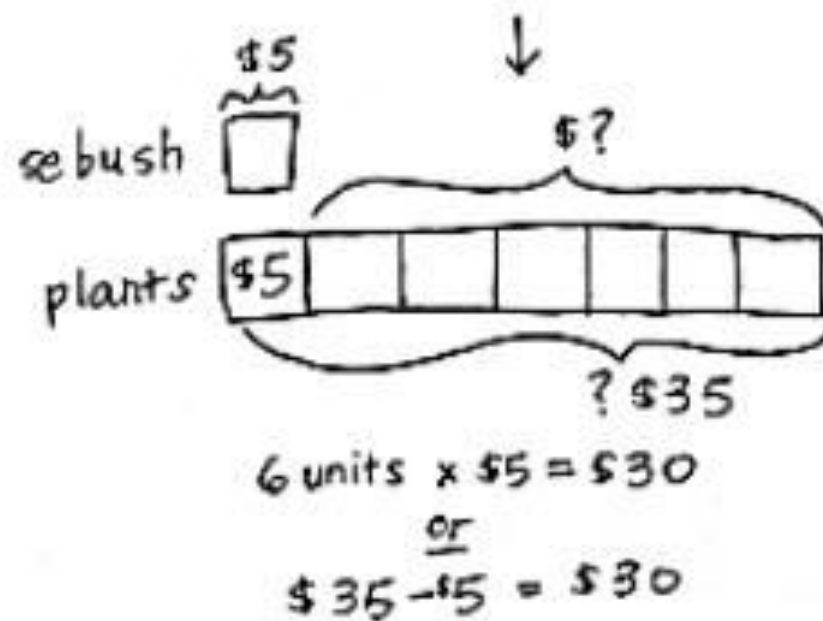
Reread the question.
Have we answered it?





Model a two-step problem with tape diagrams

Mr. Lim buys 7 plants for his garden. Each plant costs \$5. The next day, he buys a rose bush that also costs \$5. How much more do the 7 plants cost than the rose bush?



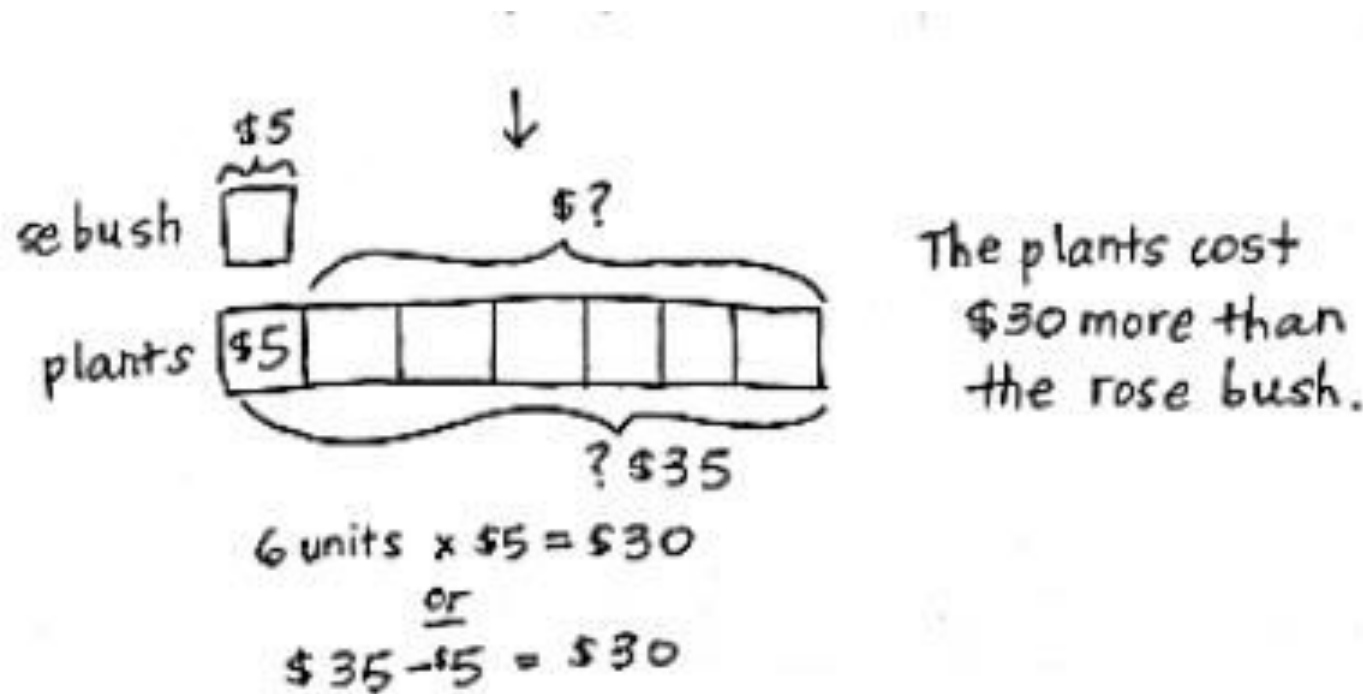
The plants cost
 $\$30$ more than
the rose bush.

Is $\$30$ a reasonable answer? Why or why not?



Model a two-step problem with tape diagrams

We drew two models because the problem has two steps. How does this model represent the whole problem on its own?

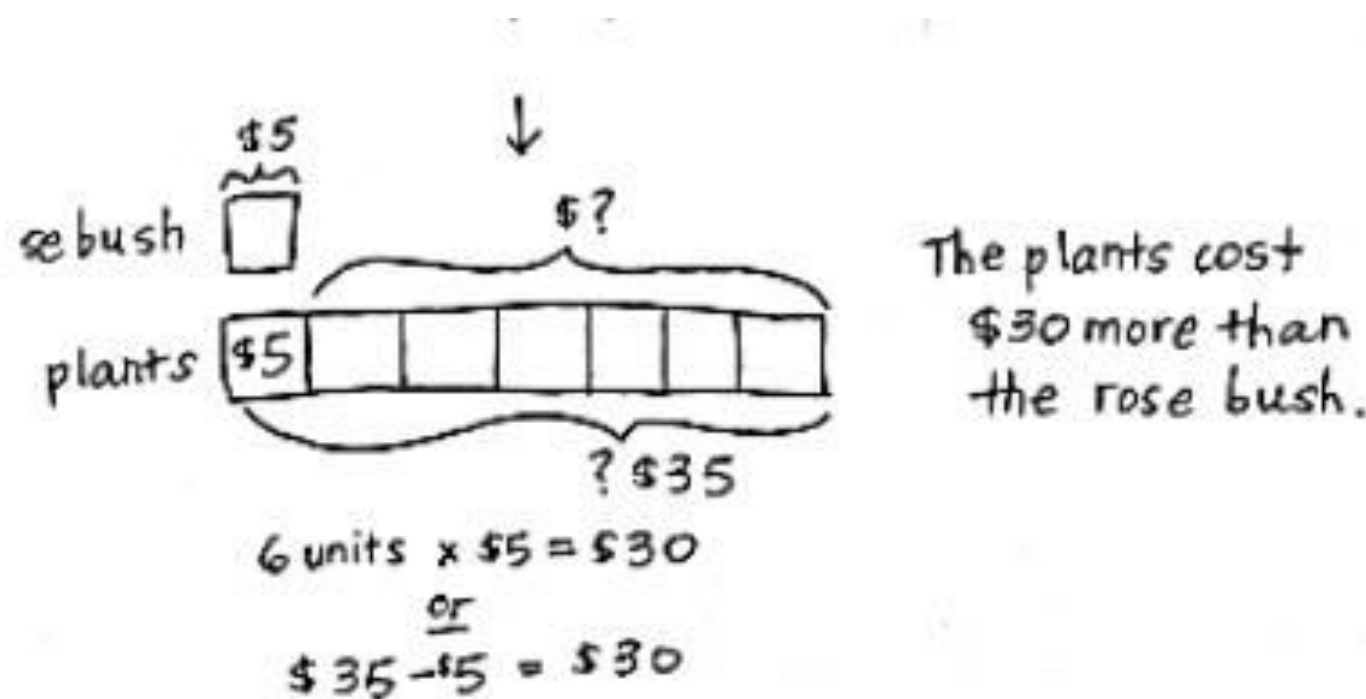




Model a two-step problem with tape diagrams

Given what you know, is it necessary to find the total costs of the plants? Why or why not?

Explain to your partner the difference between the two ways of solving this problem.





Model a two-step problem with tape diagrams

Ten children equally share 40 almonds. How many almonds will 3 children get?

What information is known?

What is unknown?

In order to solve, what do you need to find first?

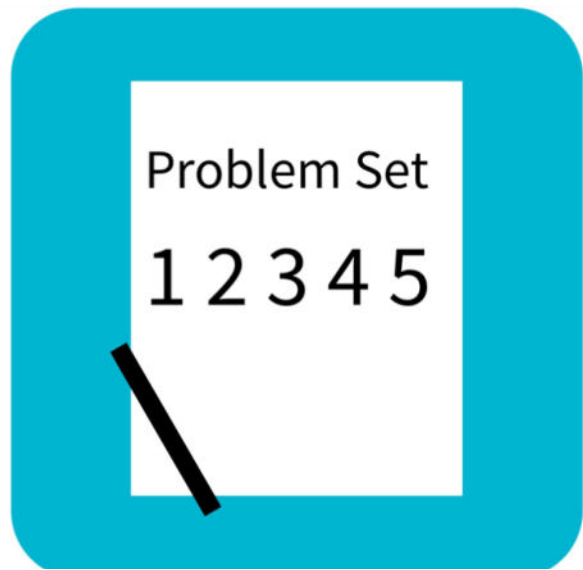


Model a two-step problem with tape diagrams

Ten children equally share 40 almonds. How many almonds will 3 children get?

With a partner, model and solve the problem.

Make sure to reread the question to see if you have answered the question. Then, think about whether or not the answer makes sense. This is how we check the reasonableness of the answer.

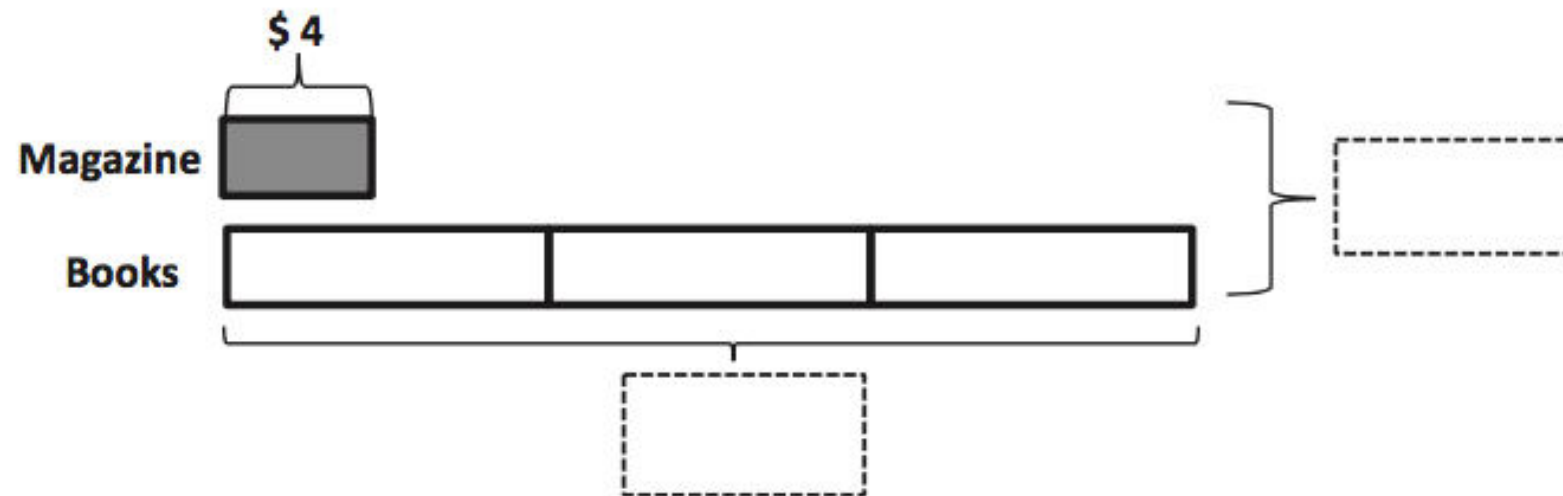


Problem Set

Name _____

Date _____

1. Ted buys 3 books and a magazine at the book store. Each book costs \$8. A magazine costs \$4.



- a. What is the total cost of the books?

Debrief

- Compare the structure of Problems 1 and 2 to the rest of the Problem Set. Problems 1 and 2 explicitly ask two questions to scaffold the two-step word problems. Problems 3–5 still require two steps but only ask one question.
- Compare Problems 3 and 5. What do the unknowns represent? How are these problems similar? How are they different?
- Have students share their models. In Problems 3 and 5, how did you show the boxes of broken cups and the bags of pears sold?
- How did you check the reasonableness of your answers to each problem?

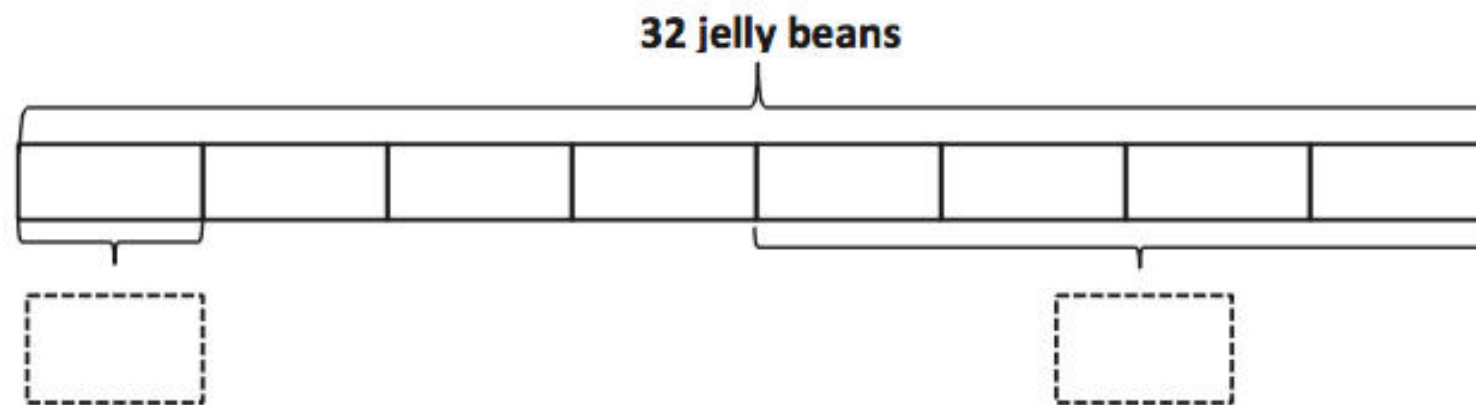


Exit Ticket

Name _____

Date _____

1. Thirty-two jelly beans are shared by 8 students.



- a. How many jelly beans will each student get?

- b. How many jelly beans will 4 students get?