G3-M3-Lesson 18
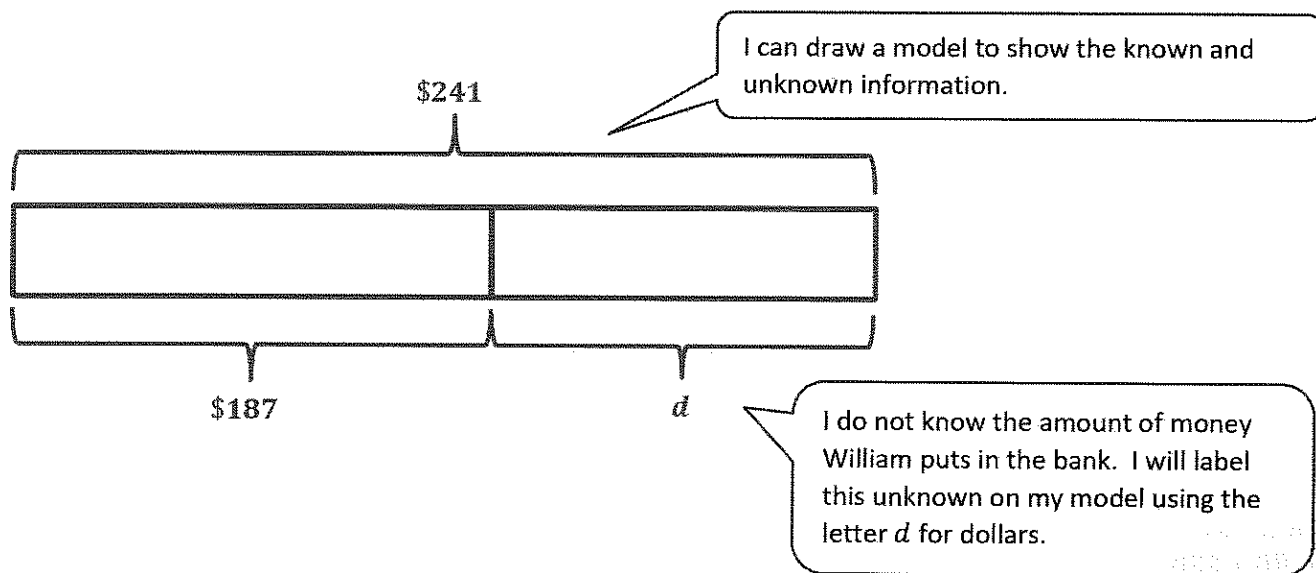
William has $187 in the bank. He saves the same amount of money each week for 6 weeks and puts it in the bank. Now William has $241 in the bank. How much money does William save each week?

> I can draw a model to show the known and unknown information.

$241

> I do not know the amount of money William puts in the bank. I will label this unknown on my model using the letter d for dollars.

$187 d

d represents the number of dollars William puts in the bank

> I can write what d represents and then write an equation to solve for d. I can subtract the known part, $187, from the whole amount, $241, to find d.

$241 - $187 = d$

$$d = \$54$$

> This answer is reasonable because $187 + $54 = $241. But it does not answer the question the problem asks. I'm trying to figure out how much money William saves each week, so I need to adjust my model.

$241

$$w$$

$187 $d = $54

w represents the number of dollars saved each week

$54 ÷ 6 = w

  w = $9
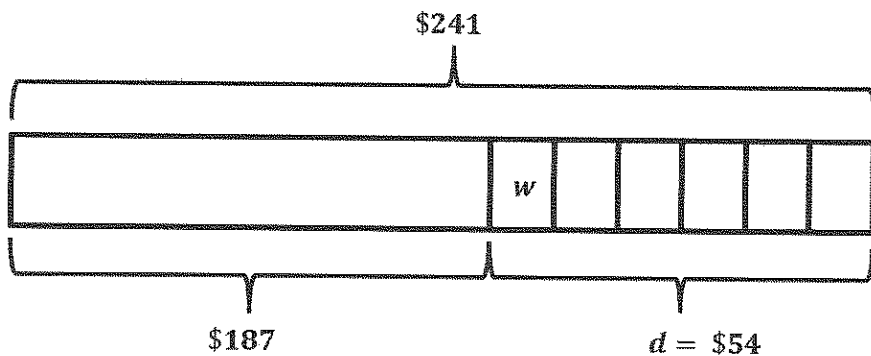
I can split the $54 into 6 equal parts to show the 6 weeks. I label the unknown *w* to represent how much money William saves each week.

I will write what *w* represents and then write an equation to solve for *w*. I can divide $54 by 6 to get $9.

William saves $9 each week.

My answer is reasonable because $9 a week for 6 weeks is $54. That's about $50. $187 is about $190. $190 + $50 = $240, which is very close to $241. My estimate is only $1 less than my answer!

I can explain why my answer is reasonable by estimating.

Lesson 18:   Solve two-step word problems involving all four operations and assess the reasonableness of solutions.

EUREKA
MATH