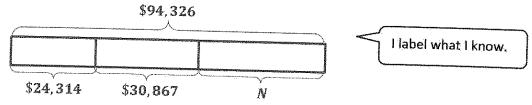
G4-M1-Lesson 16

1. In its three months of summer business, the local ice cream stand had a total of \$94,326 in sales. The first month's sales were \$24,314, and the second month's sales were \$30,867.



Round each value to the nearest ten thousand to estimate the sales of the third month.

$$$24,314 \approx $20,000$$

 $$30,867 \approx $30,000$

$$$20,000 + $30,000 = $50,000$$

 $$94,326 \approx $90,000$

The sales of the third month were about \$40,000.

To estimate the sales of the third month, I subtract the sum from two months from the total amount.

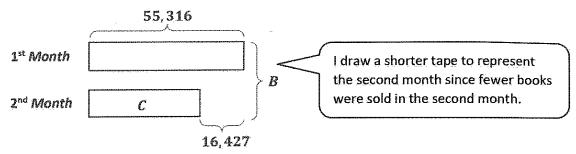
Find the exact amount of sales of the third month.

When I add the sales of the first and second month, I regroup on the line.

The exact amount of sales of the third month was \$39,145.

Use your answer from part (a) to explain why your answer in part (b) is reasonable. My answer of \$39,145 is reasonable because it is close to my estimate of \$40,000. The difference between the actual answer and my estimate is less than \$1,000.

2. In the first month after its release, 55, 316 copies of a best-selling book were sold. In the second month after its release, 16,427 fewer copies were sold. How many copies were sold in the first two months? Is your answer reasonable?



Sample Student A Response:

Then, I add the number of copies of the B = 55,316 + 38,889first and second

I subtract to find the actual number

of copies sold in

the second month.

month together

to find the total.

B = 94.205

 $55.316 \approx 60.000$

$$16.427 \approx 20.000$$

$$60,000 - 20,000 = 40,000$$

$$60,000 + 40,000 = 100,000$$

Sample Student B Response:

To find the total number copies I can add two units of 55,316 an d then subtract 16,427.

$$110,632 \approx 111,000$$

$$16,427 \approx 16,000$$

$$111,000 - 16,000 = 95,000$$

94, 205 copies were sold in the first two months.

I round to the nearest ten thousand. My answer is reasonable. It is about 6,000 less than my estimate. I would expect this difference because I rounded each number up to the nearest ten thousand.

I round to the nearest thousand. My answer is really close to my estimate! When I round to a smaller place value unit, I often get an estimate closer to the actual answer.

Solve two step word problems using the standard subtraction algorithm fluently modeled with tape diagrams, and assess the reasonableness of answers using rounding.

