G3-M2-Lesson 21

Mia measures the lengths of three pieces of wire. The lengths of the wires are recorded to the right.

a. Estimate the total length of Wire A and Wire C. Then, find the actual total length.

I can round the lengths of all the wires to the nearest ten.

Wire A	63 cm ≈ <u>60</u> cm
Wire B	75 cm ≈ <u>80</u> cm
Wire C	49 cm ≈ <u>50</u> cm

Estimate: 60 cm + 50 cm = 110 cm

I can add the rounded lengths of Wires A and C to find an estimate of their total length.

Actual: 63 cm 49 cm = 112 cm < 62 1 50

The total length is 112 cm.

I can use mental math to solve this problem. I do not have to write it out vertically. I can break apart 63 as 62 and 1. Then I can make the next ten to 50, and then add the 62.

 Subtract to estimate the difference between the total length of Wires A and C and the length of Wire B. Then, find the actual difference. Model the problem with a tape diagram.

Estimate: 110 cm - 80 cm = 30 cm

Actual: 112 cm - 75 cm = 37 cm

Wire A + Wire C 112 cm From the tape diagram, I see that I need to solve for an unknown part. Wire B 75 cm ? cm 10 12 I can write this problem N2 cm vertically. I can unbundle 1 ten for 10 ones. I can rename 112 75 cm The difference is 37 cm. as ${f 10}$ tens and ${f 12}$ ones. Then I 37 cm am ready to subtract.