

## G2-M2-Lesson 9

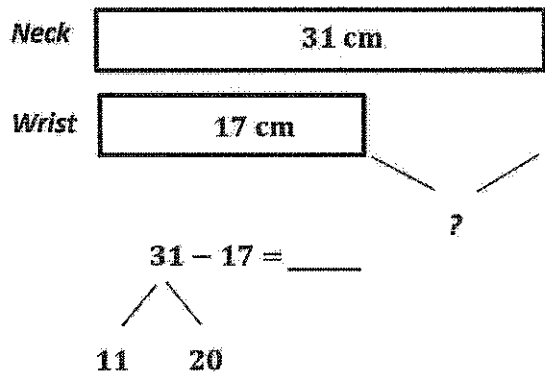
1. Tommy completed the chart below by first estimating the measurement around three body parts and then finding the actual measurement with his meter strip.

Body Part Measured	Estimated Measurement in Centimeters	Actual Measurement in Centimeters
Neck	25 cm	31 cm
Wrist	13 cm	17 cm
Head	50 cm	57 cm

What is the difference between the longest and shortest measurements?

40 cm      $57 - 17 = 40$

Draw a tape diagram comparing the measurements of Tommy's neck and wrist.

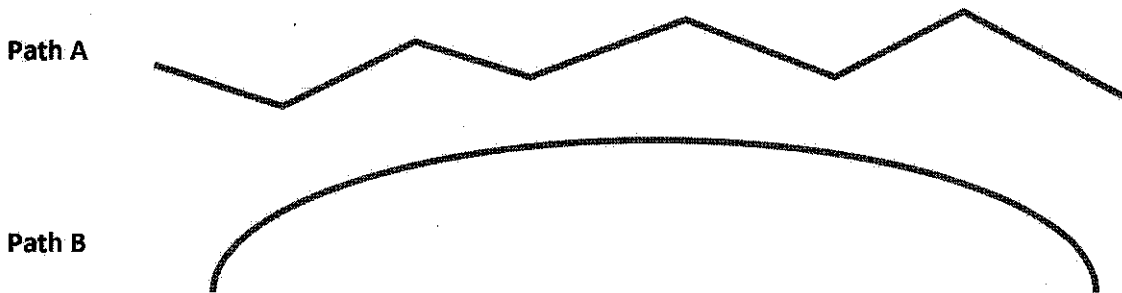


I can draw a tape diagram to compare measurements. The longer bar represents the length around Tommy's neck. The shorter bar represents the length around his wrist. I must remember to draw the second bar directly underneath the first. I have to make sure that they line up perfectly so that the starting points are at the same place.

$20 - 17 = 3$   
 $11 + 3 = 14$

I can describe the difference by writing the expression  $31 - 17$ . Then, I can draw a number bond and use the take from ten strategy to solve.

2. Measure the two paths below with your meter strip and string.



I can lay my string straight along each path. Then, I can lay it along the meter strip to figure out the actual length in centimeters.

Path A is 14 cm long.

Path B is 13 cm long.

Together, Paths A and B measure 27 cm.

$$14 + 13 = 27$$

Path A is 1 cm (shorter/longer) than Path B.

$$14 - 13 = 1$$