RELATE ADDITION AND SUBTRACTION LENGTHS

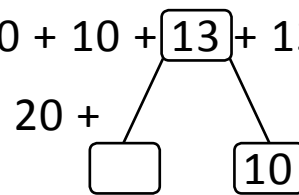**Apply conceptual understanding of measurement by solving two step word problems.**

1) Pam and Mark measured the distance around each other's wrists. Pam's measured 10 centimeters. Mark's measured 3 centimeters more than Pam's what might be the total length around their wrists. (All four wrists)

Solution: Length around the Pam's wrist = ____ centimeters.

Step 1: Mark's measured ___ centimeters more than Pam's.

Length around the Mark's wrist = $10 + 3 = $ ____ centimeters long.

Step 2: Total length of their all four wrists = $10 + 10 + \boxed{13} + 13$.

$20 + $

$\boxed{}$ $\boxed{10}$

$23 + 23 = $ ____ centimeters.

By tape diagram: **(OR)**

10		20		30	+ 3		+ 10	43	+ 3	

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2) There is 29 centimeters of green ribbon. A blue ribbon is 9 centimeters shorter than the green ribbon. How long is the blue ribbon.

Step 1: Find the length of blue ribbon?

Green ribbon **CENTIMETERS**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

16	17	18	19	20	21	22	23	24	25	26	27	28	29

Blue ribbon

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

16	17	18	19	20	21	22	23	24	25	26	27	28	29

9 centimeters cut off.

Step 2: Length of the blue ribbon = $29 - 9 = $ ____.

By using tape diagram:

29	− 9	

EDUBUZZ KIDS