

Worked Example 3B

A string is cut into four pieces A, B, C and D.
Three of the pieces add up to 100 cm long.
Which are the three pieces of string?

A	B	C	D
25 cm	43 cm	22 cm	32 cm



We make a reasonable guess of the 3 pieces, then check if they add up to 100 cm long.

*The digit '0' should be in the ones place of the total.

Guess 1: A, B and C

$$(5 + 3 + 2 = \underline{10})$$

Look for 3 ones digits that add up to '0'.

Check 1: $25 + 43 + 22 = 90$ cm X

Guess 2: A, B and D

$$(5 + 3 + 2 = \underline{10})$$

Check 2: $25 + 43 + 32 = 100$ cm ✓

The three pieces are A, B and D.