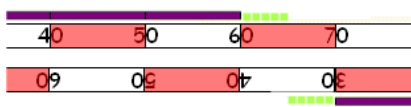


TOODIE (Add and Subtract 2-digit Numbers)

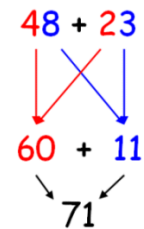


Use two metre sticks back to back with 10cm sticks and 1cm sticks to explore all the number pairs that make 100.

Practice giving spoken explanations as to why (eg) $64 + 36 = 100$.
'6 tens + 3 tens = 9 tens and the extra ten units makes another ten'

Explore how to add pairs of two digit numbers by *partitioning* into tens and units:

' $40 + 20 = 60$, $8 + 3 = 11$ so $48 + 23 = 71$ '



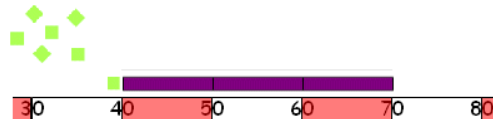
Subtract by taking away first from tens and then from any 2-digit number:

$$70 - 20 = 50$$

so

$$70 - 21 = 49$$

$$70 - 22 = 48$$



Subtract by using differences:

$$37 + ? = 40$$

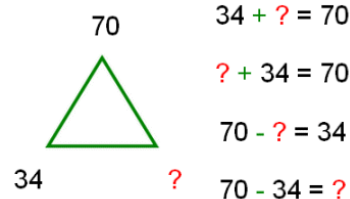
so

$$37 + ? = 70$$

$$37 + ? = 60$$

$$37 + ? = 80$$

Work with number triangles:



So $80 - 37 = 43$.