

Subtraction

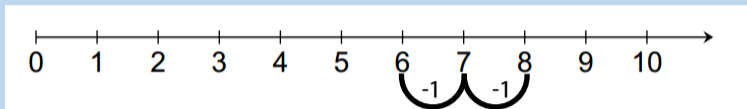
Stage 1

Subtraction stories and songs. Use practical objects to take away and cross pictures out. Also use fingers to subtract. E.g. $5 - 2 = 3$



Stage 2

Subtraction as counting back on a number line/hundred square in ones. Learning subtraction facts. Finding the difference. E.g. The difference between 6 and 8 = 2.



Always start subtraction from the right and count back towards the left with loops under the number line.

Stage 3

Subtraction as counting back on a number line/hundred square in tens and ones. Subtraction as taking away on an empty number line. E.g. $18 - 12 = 6$



Subtraction by partitioning

E.g. $56 - 23 = 33$

$$56 - 20 = 36$$

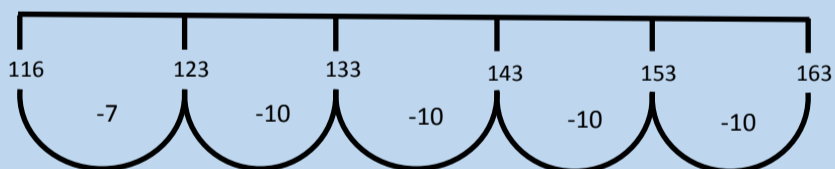
$$36 - 3 = 33$$

Stage 4

Subtraction as taking away on an empty number line.

E.g. $163 - 47 = 116$

Count back 47 from 163



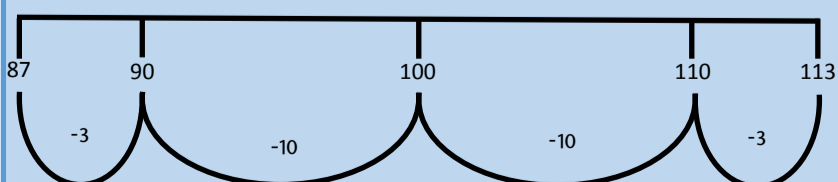
Working towards taking away 40 (4×10) to be more efficient

E.g. $163 - 47 = 116$



Subtraction as finding the difference

E.g. $113 - 87 = 26$



Stage 5

Finding the difference (counting up from the smallest number strategy)

E.g. $754 - 586 = 168$

HTU

754

-586

4 (To make 590)

10 (To make 600)

100 (To make 700)

50 (To make 750)

4 (To make 754)

168

Finding the difference (counting up method)

E.g. $\pounds 14.24 - \pounds 8.70 = \pounds 5.54$

$\pounds 14.24$

- $\pounds 8.70$

$\pounds 0.30$ (To make $\pounds 9.00$)

$\pounds 5.00$ (To make $\pounds 14.00$)

$\pounds 0.24$ (To make $\pounds 14.24$)

$\pounds 5.54$

Leading to compact form

E.g. $\pounds 14.24 - \pounds 8.70 = \pounds 5.54$

$\pounds 14.24$

- $\pounds 8.70$

$\pounds 0.30$ (To make $\pounds 9.00$)

$\pounds 5.24$ (To make $\pounds 14.24$)

$\pounds 5.54$

Partitioned compact method

E.g. $754 - 522 = 232$

HTU

754

-522

2 (4 - 2)

30 (50 - 20)

200 (700 - 500)

232

Stage 6

Leading to compact decomposition/ exchanging

"If the bigger number is on the bottom we exchange"

We do not use the term 'borrow'

T H T U

5 13 1

~~6~~ 4 7 6

-2 6 8 4

3 7 9 2

T H T U

4 19 19 1

~~5~~ 0 0 1

- 5 6 7

4 4 3 4

Stage 7

Extend to decimals

E.g. $\pounds 4.00 - \pounds 2.65$

3 9 1

\pounds ~~4.00~~

- $\pounds 2.65$

$\pounds 1.35$

Extend to mixed decimals

E.g. $3.60 - 2.04 = 1.56$

5 1

3.60

-2.04

1.56

3.6 \rightarrow 3.60

Use zero as a place holder