Subtraction Strategies

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In Grade 4, you are using different strategies to solve subtraction problems efficiently. Here is an example:

$$924$$
$$-\ 672$$

Subtracting in Parts

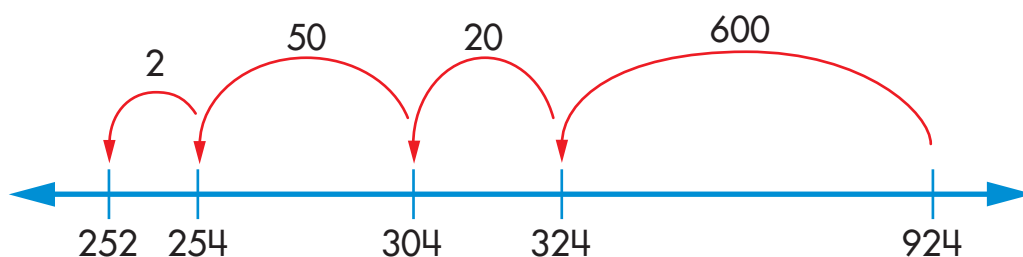Amelia solved this problem by subtracting in parts.

Amelia's solution

$924 - 672 =$

$924 - 600 = 324$
$324 - 20 = 304$
$304 - 50 = 254$
$254 - 2 = \mathbf{252}$

I started at 924, and jumped back 672 in four parts (−600, −20, −50, −2).

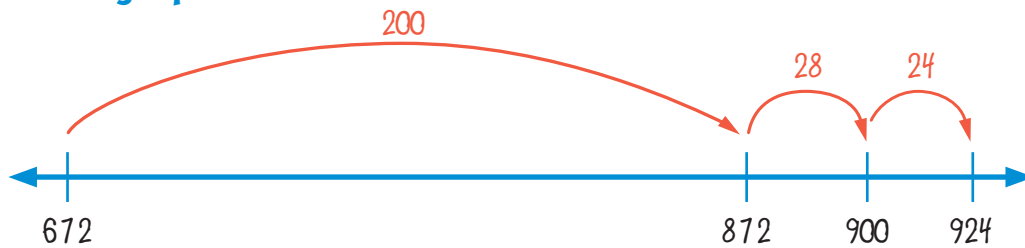*I landed on 252.*

The answer is the place where I landed.

$924 - 672 = \mathbf{252}$

Subtraction Strategies

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$$924$$
$$- \ 672$$

Adding Up

Jake used an adding-up strategy to solve $924 - 672$.

Jake's solution

$672 + \underline{\ \ ?\ \ } = 924$

$672 + \underline{\ \ 200\ \ } = 872$
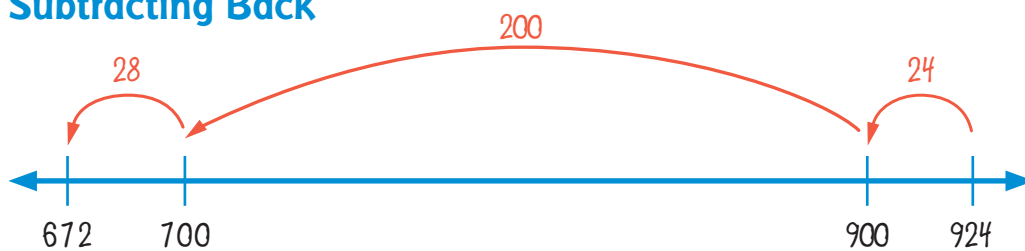
$872 + \underline{\ \ 28\ \ } = 900$

$900 + \underline{\ \ 24\ \ } = 924$

$200 + 28 + 24 = \mathbf{252}$ *The answer is the total of all of the jumps from 672 up to 924.*

Subtracting Back

Luke used a subtracting-back strategy.

Luke's solution

$924 - \underline{\ \ 24\ \ } = 900$

$900 - \underline{\ \ 200\ \ } = 700$

$700 - \underline{\ \ 28\ \ } = 672$

$24 + 200 + 28 = \mathbf{252}$ *The answer is the total of all the jumps from 924 back to 672.*

Subtraction Strategies

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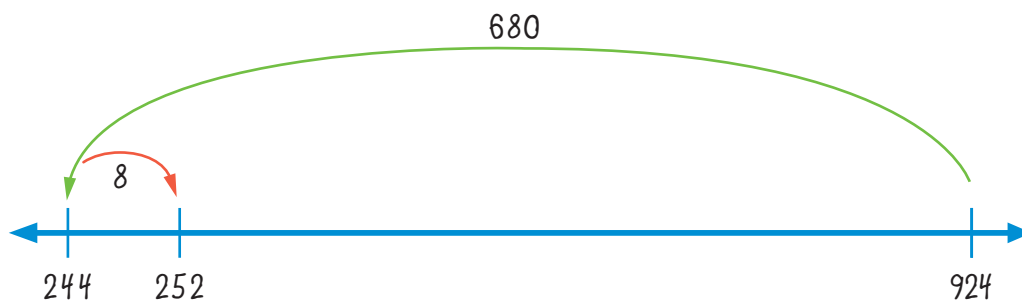
$$924$$
$$-\ 672$$

Changing the Numbers

Sabrina and Ursula solved $924 - 672$ by changing the numbers to make an easier problem to solve.

Sabrina's solution

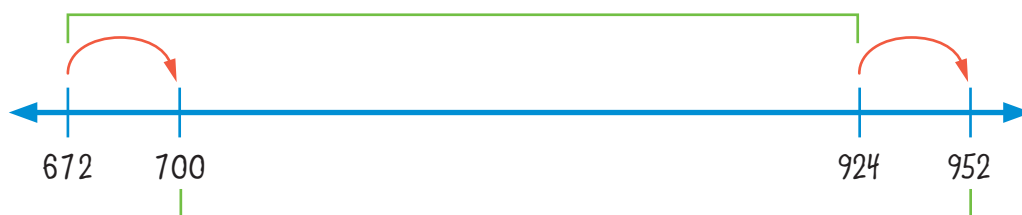Sabrina changed one number and then adjusted to find her answer.

$924 - 672 =$

$924 - 680 = 244$ *I subtracted 680 instead of 672.*

$244 + 8 = \mathbf{252}$ *I subtracted too much, so I have to add 8 back on.*

Ursula's solution

Ursula solved this problem by creating an equivalent problem.

$924 - 672 =$

$(+28)$ $(+28)$

$952 - 700 = \mathbf{252}$

Show how you would solve the problem $924 - 672$.