

Stage 6

Addition & Subtraction Pamphlet

Stage 6

Addition & Subtraction Strategies

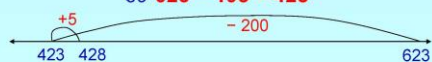


Using compensation from tidy numbers

$$623 - 195 = \square$$

Create a tidy number $623 - 200 = 423$
 Now compensate $423 + 5 = 428$

$$\text{so } 623 - 195 = 428$$



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Using place value

$$456 + 247 = \square$$

Expand the numbers into 100s, 10s & 1s

$$400 + 200 + 50 + 40 + 6 + 7$$

Now recombine the numbers

$$600 + 90 + 13 \rightarrow 600 + 103 \rightarrow 703$$

$$\text{so } 456 + 247 = 703$$

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Using compatible numbers

$$75 + 67 + 25 = \square$$

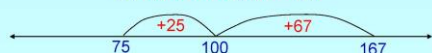
Rearrange to put the compatibles together

$$75 + 25 + 67 = \square$$

Add the compatibles together first

$$75 + 25 = 100 \rightarrow 100 + 67 \rightarrow 167$$

$$\text{so } 75 + 67 + 25 = 167$$



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Using reversibility

$$613 - 376 = \square$$

Write the equation as ...

$$376 + \square = 613$$



$$24 + 213 = 237$$

$$\text{so } 613 - 376 = 237$$

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Using equal additions

$$652 - 137 = \square$$

Add the same number to both numbers

$$652 + 3 - 137 + 3 = \square$$

$$655 - 140 = 515$$



$$\text{so } 652 - 137 = 515$$

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Using decomposition

$$852 - 438 = \square$$

Write the numbers in columns, then expand both numbers

$$\begin{array}{r} 852 \\ - 438 \\ \hline \end{array} \quad \begin{array}{r} 800 + 50 + 2 \\ - 400 + 30 + 8 \\ \hline \end{array}$$

Rename or use negative numbers

$$\begin{array}{r} 800 + 50 + 2 \\ - 400 + 30 + 8 \\ \hline 400 + 10 + 4 \end{array} \quad \begin{array}{r} 800 + 50 + 2 \\ - 400 + 30 + 8 \\ \hline 400 + 20 - 6 \end{array}$$

$$\text{so } 852 - 438 = 414$$