

Multi-Digit Subtraction Strategies:

Removal (Take Away)

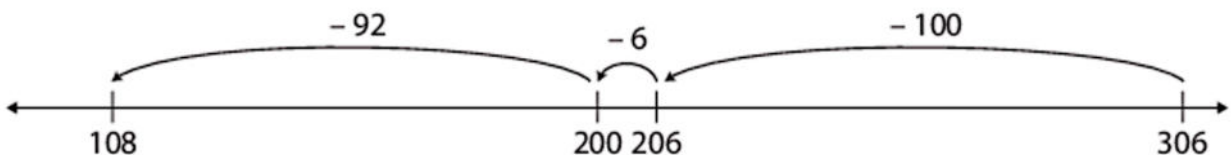
Start with the minuend (the “whole”) and take away the subtrahend (the “part you know”).

You can break the subtrahend into friendly chunks or chunks that help you get to friendly numbers.

Example #1

$$306 - 198$$
$$306 - 100 = 206$$
$$206 - 6 = 200$$
$$200 - 92 = 108$$

$$306 - 198 = 108$$

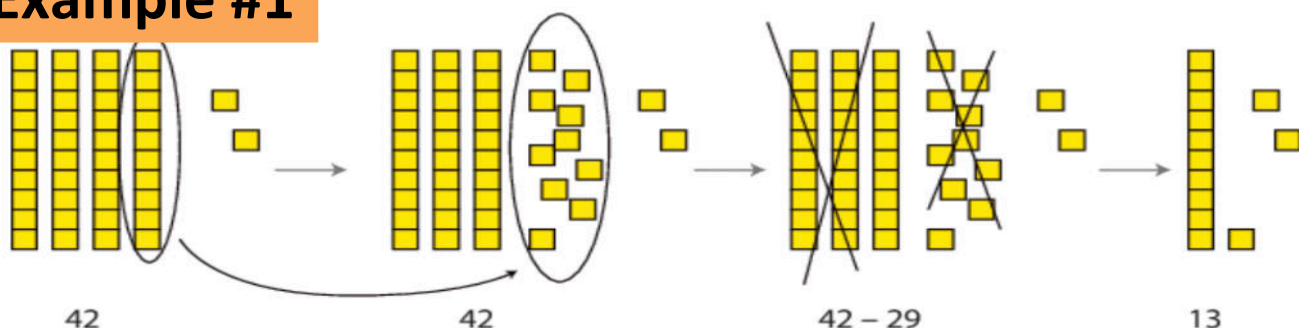


Place Value Splitting

Split the minuend (the “whole”) and the subtrahend (the “part you know”) by place value. Take the subtrahend away from the minuend. Start with taking away ones, then tens, etc. The pieces that are left make up your difference.

Remember: The order (minuend – subtrahend) matters in subtraction and you may need to regroup.

Example #1



There were not enough ones in the minuend to take away the nine ones in the subtrahend. This student traded in one ten for ten ones

$$\begin{array}{r}
 42 - 29 \\
 \begin{array}{l}
 \swarrow \quad \searrow \\
 40 + 2 \quad 20 + 9 \\
 \swarrow \quad \searrow \quad \swarrow \quad \searrow \\
 2 - 9 = \quad 40 - 20 = \\
 +10 \quad \quad -10 \\
 12 - 9 = 3 \quad 30 - 20 = 10 \\
 3 + 10 = 13
 \end{array}
 \end{array}$$

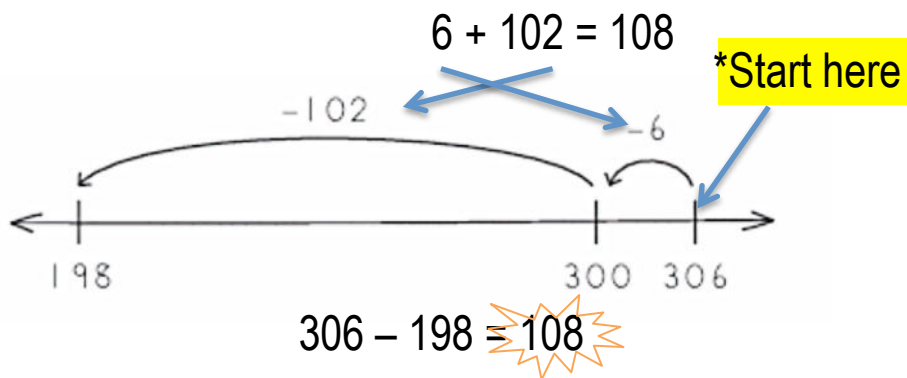
Multi-Digit Addition Strategies:

Differencing (Distance)

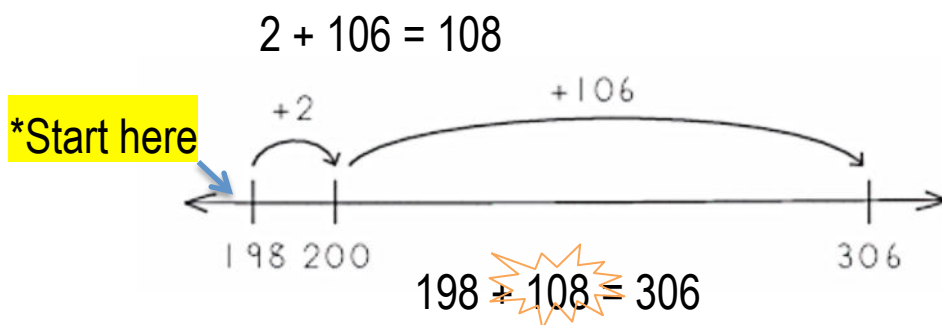
Use big jumps and jumps to friendly numbers to find the distance between one number the other.

Good for numbers that are close together

Example #1 Jump back from the minuend (the “whole”) to the subtrahend (the “part you know”)



Example #2 Start at the subtrahend (the “part you know”) and jump to the minuend (the “whole”)



Multi-Digit Addition Strategies:

Constant Difference

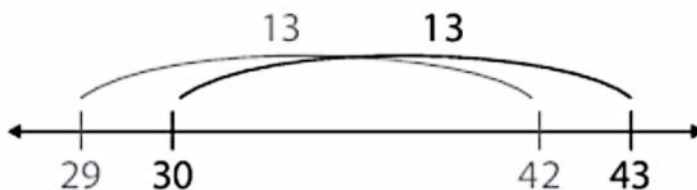
Add or Subtract a number to both the minuend (the “whole”) and the subtrahend (the “part you know”) to help you get to a friendly number. Then, find the difference

Example #1

Jump back from the minuend (the “whole”) to the subtrahend (the “part you know”)

$$42 + 1 = 43$$

$$\begin{array}{r} -29 + 1 = 30 \\ 13 \end{array}$$



Remember:

“Give & Take” works for addition

“Take & Take” or “Give & Give” is for subtraction