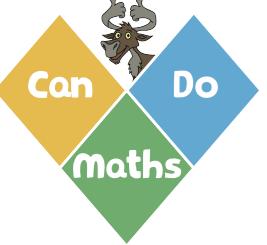


Subtraction



2300 - 800
Bridging boundaries by counting back in efficient steps

3995 - 4007
Find the difference between two numbers

Count on from 3995 to 4000, then 7 more so the difference between them is $5 + 7 = 12$

5451 - 1999
Round then adjust

1000s	100s	10s	1s
5000 5000	000 000	40 40	1 1
000 000	000 000	00 00	1 1

2300 - 300 - 500 = 1500

- 500 - 300

1500 2000 2300

3995 - 4007

+5 +7

3495 4000 4007

Take away 2000 then add 1

- 2000

3451 3452 5451

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$63,452 + 19,999$
Round then adjust

Add 20,000 then subtract 1

$2,452 - 999$
Round then adjust

Take away 1 then add 1 thousand

$40,007 - 39,946$
Find the difference between two numbers

Count on if there are 9 ones to 40,000, then 1 more to get the difference between them is 41

Written methods

$25,648$ $+ 42,524$ \hline $68,172$	$45,748$ $- 26,374$ \hline $19,374$
$25,648$ $+ 42,524$ \hline $68,172$	$45,748$ $- 26,374$ \hline $19,374$



<p>3543 – 1216 Exchanging tens</p> <p>1000s 100s 10s 1s</p> <p>3 5 4 3 - 1 2 1 6 _____ 2 3 2 7</p> <p>If the ones digit in the minuend is less than the ones digit in the subtrahend, I need to exchange 1 ten for 10 ones.</p>	<p>3343 – 1756 Exchanging in multiple columns</p> <p>1000s 100s 10s 1s</p> <p>3 3 4 3 - 1 7 5 6 _____ 2 5 8 7</p>	<p>3543 – 835 Different numbers of digits</p> <p>2 4 3 4 3 - 8 3 5 _____ 2 5 0 8</p> <p>Line up the ones with the ones, the tens with the tens.</p> <p>regroup exchange ones tens hundreds thousands</p>
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230 - 80

Bridging boundaries by counting back in efficient steps

$230 - 30 = 200$

$200 - 10 = 190$

$190 - 10 = 180$

$180 - 10 = 170$

$170 - 10 = 160$

$160 - 10 = 150$

304 - 297

Find the difference between two numbers

$304 - 297 = 7$

304 is 7 more than 297
297 is 7 less than 304
so the difference between them is 7

435 - 199

Round then adjust

$435 - 200 = 235$

$235 + 1 = 236$

100s

10s

1s

$100 - 10 = 90$

$90 - 9 = 81$



Subtraction Facts

10	10 - 0 =
9	10 - 1 = 9 - 0
8	10 - 2 = 9 - 1 = 8 - 0
7	10 - 3 = 9 - 2 = 8 - 1 = 7 - 0
6	10 - 4 = 9 - 3 = 8 - 2 = 7 - 1 = 6 - 0
5	10 - 5 = 9 - 4 = 8 - 3 = 7 - 2 = 6 - 1 = 5 - 0
4	10 - 6 = 9 - 5 = 8 - 4 = 7 - 3 = 6 - 2 = 5 - 1 = 4 - 0
3	10 - 7 = 9 - 6 = 8 - 5 = 7 - 4 = 6 - 3 = 5 - 2 = 4 - 1
2	10 - 8 = 9 - 7 = 8 - 6 = 7 - 5 = 6 - 4 = 5 - 3 = 4 - 2
1	10 - 9 = 9 - 8 = 8 - 7 = 7 - 6 = 6 - 5 = 5 - 4 = 4 - 3
0	10 - 10 = 9 - 9 = 8 - 8 = 7 - 7 = 6 - 6 = 5 - 5 = 4 - 4

If I know $5 - 2 = 3$ then I also know $50 - 20 = 30$

10s **1s**

56 - 19
Round then adjust

Subtract 20 then add 1

55 - 20
Subtract multiples of ten

36 - 37

52 - 47
Find the difference between two numbers

47 + 52 = 52 + 47 = 99

Stop and look.
What do you notice?

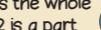
**subtraction
difference
commutative**

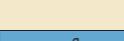
52 - 47 is not equal to 47 - 52
Subtraction is not commutative

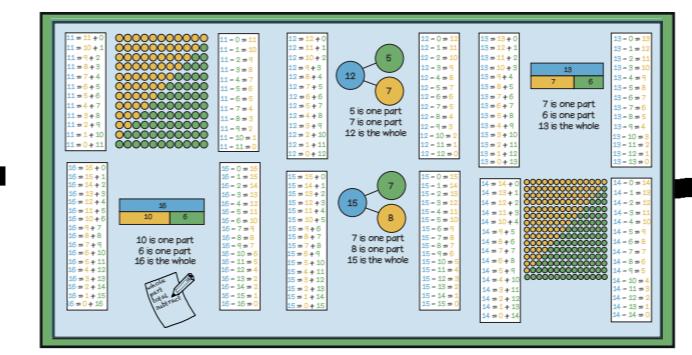


<p>345 - 127 Exchanging tens</p> $ \begin{array}{r} 3\ 4\ 5 \\ - 1\ 2\ 7 \\ \hline 2\ 1\ 8 \end{array} $	<p>345 - 157 Exchanging in multiple columns</p> $ \begin{array}{r} 3\ 4\ 5 \\ - 1\ 5\ 7 \\ \hline 1\ 8\ 8 \end{array} $	<p>345 - 67 Different numbers of digits</p> <p>Line up the ones with the ones, the tens with the tens</p> $ \begin{array}{r} 3\ 4\ 5 \\ - 6\ 7 \\ \hline 2\ 7\ 8 \end{array} $
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$5 = 5 + 0$		$5 - 0 = 5$
$5 = 4 + 1$		$5 - 1 = 4$
$5 = 3 + 2$		$5 - 2 = 3$
$5 = 2 + 3$		$5 - 3 = 2$
$5 = 1 + 4$		$5 - 4 = 1$
$5 = 0 + 5$		$5 - 5 = 0$
$6 = 6 + 0$		$6 - 0 = 6$
$6 = 5 + 1$		$6 - 1 = 5$
$6 = 4 + 2$		$6 - 2 = 4$
$6 = 3 + 3$		$6 - 3 = 3$
$6 = 2 + 4$		$6 - 4 = 2$
$6 = 1 + 5$		$6 - 5 = 1$
$6 = 0 + 6$		$6 - 6 = 0$
5 is the whole 2 is a part 3 is a part		 
		
		

$7 = 7 + 0$		$7 - 0 = 7$
$7 = 6 + 1$		$7 - 1 = 6$
$7 = 5 + 2$		$7 - 2 = 5$
$7 = 4 + 3$		$7 - 3 = 4$
$7 = 3 + 4$		$7 - 4 = 3$
$7 = 2 + 5$		$7 - 5 = 2$
$7 = 1 + 6$		$7 - 6 = 1$
$7 = 0 + 7$		$7 - 7 = 0$
8 is the whole 2 is a part 6 is a part		
		
		
		



$\begin{array}{l} 17 = 17 + 0 \\ 17 = 16 + 1 \\ 17 = 15 + 2 \\ 17 = 14 + 3 \\ 17 = 13 + 4 \\ 17 = 12 + 5 \\ 17 = 11 + 6 \\ 17 = 10 + 7 \\ 17 = 9 + 8 \\ 17 = 8 + 9 \\ 17 = 7 + 10 \\ 17 = 6 + 11 \\ 17 = 5 + 12 \\ 17 = 4 + 13 \\ 17 = 3 + 14 \\ 17 = 2 + 15 \\ 17 = 1 + 16 \\ 17 = 0 + 17 \end{array}$		$\begin{array}{l} 17 - 0 = 17 \\ 17 - 1 = 16 \\ 17 - 2 = 15 \\ 17 - 3 = 14 \\ 17 - 4 = 13 \\ 17 - 5 = 12 \\ 17 - 6 = 11 \\ 17 - 7 = 10 \\ 17 - 8 = 9 \\ 17 - 9 = 8 \\ 17 - 10 = 7 \\ 17 - 11 = 6 \\ 17 - 12 = 5 \\ 17 - 13 = 4 \\ 17 - 14 = 3 \\ 17 - 15 = 2 \\ 17 - 16 = 1 \\ 17 - 17 = 0 \end{array}$	$\begin{array}{l} 18 = 18 + 0 \\ 18 = 17 + 1 \\ 18 = 16 + 2 \\ 18 = 15 + 3 \\ 18 = 14 + 4 \\ 18 = 13 + 5 \\ 18 = 12 + 6 \\ 18 = 11 + 7 \\ 18 = 10 + 8 \\ 18 = 9 + 9 \\ 18 = 8 + 10 \\ 18 = 7 + 11 \\ 18 = 6 + 12 \\ 18 = 5 + 13 \\ 18 = 4 + 14 \\ 18 = 3 + 15 \\ 18 = 2 + 16 \\ 18 = 1 + 17 \\ 18 = 0 + 18 \end{array}$		5 is one part 13 is one part 18 is the whole	$\begin{array}{l} 18 - 0 = 18 \\ 18 - 1 = 17 \\ 18 - 2 = 16 \\ 18 - 3 = 15 \\ 18 - 4 = 14 \\ 18 - 5 = 13 \\ 18 - 6 = 12 \\ 18 - 7 = 11 \\ 18 - 8 = 10 \\ 18 - 9 = 9 \\ 18 - 10 = 8 \\ 18 - 11 = 7 \\ 18 - 12 = 6 \\ 18 - 13 = 5 \\ 18 - 14 = 4 \\ 18 - 15 = 3 \\ 18 - 16 = 2 \\ 18 - 17 = 1 \\ 18 - 18 = 0 \end{array}$
$\begin{array}{l} 19 = 19 + 0 \\ 19 = 18 + 1 \\ 19 = 17 + 2 \\ 19 = 16 + 3 \\ 19 = 15 + 4 \\ 19 = 14 + 5 \\ 19 = 13 + 6 \\ 19 = 12 + 7 \\ 19 = 11 + 8 \\ 19 = 10 + 9 \\ 19 = 9 + 10 \\ 19 = 8 + 11 \\ 19 = 7 + 12 \\ 19 = 6 + 13 \\ 19 = 5 + 14 \\ 19 = 4 + 15 \\ 19 = 3 + 16 \\ 19 = 2 + 17 \\ 19 = 1 + 18 \\ 19 = 0 + 19 \end{array}$		$\begin{array}{l} 19 - 0 = 19 \\ 19 - 1 = 18 \\ 19 - 2 = 17 \\ 19 - 3 = 16 \\ 19 - 4 = 15 \\ 19 - 5 = 14 \\ 19 - 6 = 13 \\ 19 - 7 = 12 \\ 19 - 8 = 11 \\ 19 - 9 = 10 \\ 19 - 10 = 9 \\ 19 - 11 = 8 \\ 19 - 12 = 7 \\ 19 - 13 = 6 \\ 19 - 14 = 5 \\ 19 - 15 = 4 \\ 19 - 16 = 3 \\ 19 - 17 = 2 \\ 19 - 18 = 1 \\ 19 - 19 = 0 \end{array}$	$\begin{array}{l} 20 = 20 + 0 \\ 20 = 19 + 1 \\ 20 = 18 + 2 \\ 20 = 17 + 3 \\ 20 = 16 + 4 \\ 20 = 15 + 5 \\ 20 = 14 + 6 \\ 20 = 13 + 7 \\ 20 = 12 + 8 \\ 20 = 11 + 9 \\ 20 = 10 + 10 \\ 20 = 9 + 11 \\ 20 = 8 + 12 \\ 20 = 7 + 13 \\ 20 = 6 + 14 \\ 20 = 5 + 15 \\ 20 = 4 + 16 \\ 20 = 3 + 17 \\ 20 = 2 + 18 \\ 20 = 1 + 19 \\ 20 = 0 + 20 \end{array}$		12 is one part 8 is one part 20 is the whole	$\begin{array}{l} 20 - 0 = 20 \\ 20 - 1 = 19 \\ 20 - 2 = 18 \\ 20 - 3 = 17 \\ 20 - 4 = 16 \\ 20 - 5 = 15 \\ 20 - 6 = 14 \\ 20 - 7 = 13 \\ 20 - 8 = 12 \\ 20 - 9 = 11 \\ 20 - 10 = 10 \\ 20 - 11 = 9 \\ 20 - 12 = 8 \\ 20 - 13 = 7 \\ 20 - 14 = 6 \\ 20 - 15 = 5 \\ 20 - 16 = 4 \\ 20 - 17 = 3 \\ 20 - 18 = 2 \\ 20 - 19 = 1 \\ 20 - 20 = 0 \end{array}$
$\begin{array}{l} \text{If I know } 5 + 4 = 9 \\ \text{then I also know } 15 + 4 = 19 \end{array}$		$\begin{array}{l} \text{If I know } 5 + 4 = 9 \\ \text{then I also know } 15 + 4 = 19 \end{array}$				