

Strategies for Adding Whole Numbers

There are many ways to add whole numbers. Here are some ways to add 9727 and 4895.

$\begin{array}{r} 9727 \\ + 4895 \\ \hline \end{array}$

1. Add in parts.

$9000 + 4000 = 13\ 000$	}	$14\ 500$	}	$14\ 622$
$700 + 800 = 1\ 500$				
$20 + 90 = 110$	}	122		
$7 + 5 = 12$				

2. 4895 is 5 less than 4900.

If you add 5 to 4895 and subtract 5 from 9727, the answer will not change.

$$9727 - 5 = 9722$$

$$4895 + 5 = 4900$$

To add $9722 + 4900$:

$9000 + 4000 = 13\ 000$	}	$14\ 600 + 22 = 14\ 622$
$700 + 900 = 1600$		

3. Add the ones.
Trade 10 ones
for 1 ten.

$$\begin{array}{r} 1 \\ 9727 \\ + 4895 \\ \hline 2 \end{array}$$

Add the tens.
Trade 10 tens
for 1 hundred.

$$\begin{array}{r} 11 \\ 9727 \\ + 4895 \\ \hline 22 \end{array}$$

Add the hundreds.
Trade 10 hundreds
for 1 thousand.

$$\begin{array}{r} 111 \\ 9727 \\ + 4895 \\ \hline 622 \end{array}$$

Add the
thousands.

$$\begin{array}{r} 111 \\ 9727 \\ + 4895 \\ \hline 14622 \end{array}$$

Addition: Whole Numbers (1)

1.
$$\begin{array}{r} 68 \\ + 27 \\ \hline 95 \end{array}$$

$$\begin{array}{r} 95 \\ + 88 \\ \hline 183 \end{array}$$

$$\begin{array}{r} 57 \\ + 43 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 90 \\ + 36 \\ \hline 126 \end{array}$$

2.
$$\begin{array}{r} 58 \\ + 99 \\ \hline 157 \end{array}$$

$$\begin{array}{r} 76 \\ + 24 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 23 \\ + 82 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 47 \\ + 25 \\ \hline 72 \end{array}$$

3.
$$\begin{array}{r} 765 \\ + 809 \\ \hline 1574 \end{array}$$

$$\begin{array}{r} 257 \\ + 389 \\ \hline 646 \end{array}$$

$$\begin{array}{r} 672 \\ + 738 \\ \hline 1410 \end{array}$$

$$\begin{array}{r} 599 \\ + 699 \\ \hline 1298 \end{array}$$

4.
$$\begin{array}{r} 941 \\ + 685 \\ \hline 1626 \end{array}$$

$$\begin{array}{r} 900 \\ + 850 \\ \hline 1750 \end{array}$$

$$\begin{array}{r} 387 \\ + 668 \\ \hline 1055 \end{array}$$

$$\begin{array}{r} 476 \\ + 674 \\ \hline 1150 \end{array}$$

5.
$$\begin{array}{r} 6351 \\ + 8472 \\ \hline 14823 \end{array}$$

$$\begin{array}{r} 9645 \\ + 3987 \\ \hline 13632 \end{array}$$

$$\begin{array}{r} 2085 \\ + 5841 \\ \hline 7926 \end{array}$$

$$\begin{array}{r} 6979 \\ + 5859 \\ \hline 12838 \end{array}$$

6.
$$\begin{array}{r} 7638 \\ + 9738 \\ \hline 17376 \end{array}$$

$$\begin{array}{r} 8252 \\ + 4978 \\ \hline 13230 \end{array}$$

$$\begin{array}{r} 6211 \\ + 7233 \\ \hline 13444 \end{array}$$

$$\begin{array}{r} 9893 \\ + 462 \\ \hline 10355 \end{array}$$

Strategies for Subtracting Whole Numbers

There are many ways to subtract whole numbers. Here are some ways to subtract 1889 from 3497.

$$\begin{array}{r} 3497 \\ - 1889 \\ \hline \end{array}$$

1. If you add the same amount to both numbers, the difference will remain the same.

$$3497 + 3 = 3500$$

$$1889 + 3 = 1892$$

Now subtract $3500 - 1892$

$$3500 - 1800 = 1700$$

$$1700 - 92 = 1608$$

2. Round 1889 to 2000.

$$3497 - 2000 = 1497$$

Difference between rounded number and actual number:

$$2000 - 1889 = 111$$

$$1497 + 111 = 1608$$

3. Add in steps to get from 1889 to 3497.

$111 + 1000 + 497 = 1608$

You added 1608 in all, so $3497 - 1889 = 1608$.

4. More ones are needed. → Trade 1 ten for 10 ones. → Subtract the ones.

$$\begin{array}{r} 3497 \\ - 1889 \\ \hline \end{array}$$

Trade 1 ten for 10 ones. → Subtract the ones.

$$\begin{array}{r} 8 \ 17 \\ 3497 \\ - 1889 \\ \hline 8 \end{array}$$

Subtract the tens. →

$$\begin{array}{r} 8 \ 17 \\ 3497 \\ - 1889 \\ \hline 08 \end{array}$$

More hundreds are needed. Trade 1 thousand for 10 hundreds. Subtract the hundreds. →

$$\begin{array}{r} 214817 \\ 3497 \\ - 1889 \\ \hline 608 \end{array}$$

Subtract the thousands. →

$$\begin{array}{r} 214817 \\ 3497 \\ - 1889 \\ \hline 1608 \end{array}$$

Subtraction: Whole Numbers (1)

$$\begin{array}{r} 1. \quad 89 \\ - 26 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 53 \\ - 49 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 71 \\ - 39 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 50 \\ - 38 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 2. \quad 507 \\ - 268 \\ \hline 239 \end{array}$$

$$\begin{array}{r} 391 \\ - 149 \\ \hline 242 \end{array}$$

$$\begin{array}{r} 600 \\ - 252 \\ \hline 348 \end{array}$$

$$\begin{array}{r} 768 \\ - 29 \\ \hline 739 \end{array}$$

$$\begin{array}{r} 3. \quad 6841 \\ - 586 \\ \hline 6255 \end{array}$$

$$\begin{array}{r} 3907 \\ - 278 \\ \hline 3629 \end{array}$$

$$\begin{array}{r} 2000 \\ - 899 \\ \hline 1101 \end{array}$$

$$\begin{array}{r} 3082 \\ - 463 \\ \hline 2619 \end{array}$$

$$\begin{array}{r} 4. \quad 7362 \\ - 4809 \\ \hline 2553 \end{array}$$

$$\begin{array}{r} 9621 \\ - 4376 \\ \hline 5245 \end{array}$$

$$\begin{array}{r} 8593 \\ - 1869 \\ \hline 6724 \end{array}$$

$$\begin{array}{r} 7006 \\ - 2534 \\ \hline 4472 \end{array}$$

$$\begin{array}{r} 5. \quad 8209 \\ - 2647 \\ \hline 5562 \end{array}$$

$$\begin{array}{r} 8004 \\ - 7958 \\ \hline 46 \end{array}$$

$$\begin{array}{r} 6732 \\ - 4811 \\ \hline 1921 \end{array}$$

$$\begin{array}{r} 9494 \\ - 2599 \\ \hline 6895 \end{array}$$

$$\begin{array}{r} 6. \quad 7382 \\ - 4593 \\ \hline 2789 \end{array}$$

$$\begin{array}{r} 1506 \\ - 1062 \\ \hline 444 \end{array}$$

$$\begin{array}{r} 3700 \\ - 1290 \\ \hline 2410 \end{array}$$

$$\begin{array}{r} 8615 \\ - 4923 \\ \hline 3692 \end{array}$$

Strategies for Multiplying Whole Numbers

There are many ways to multiply whole numbers. Here are some ways to multiply 768 by 12.

$$\begin{array}{r} 768 \\ \times 12 \\ \hline \end{array}$$

1. Multiply the parts of 768 by 10. Multiply the parts of 768 by 2.

$\begin{array}{r} 10 \times 700 = 7000 \\ 10 \times 60 = 600 \\ 10 \times 8 = \underline{80} \\ 7680 \end{array}$	$\begin{array}{r} 2 \times 700 = 1400 \\ 2 \times 60 = 120 \\ 2 \times 8 = \underline{16} \\ 1536 \end{array}$
$7680 + 1536 = 8000 + 1100 + 110 + 6 = 9216$	

2. Multiply the parts of 768 by 12.

$$\begin{array}{r} 12 \times 700 = 8400 \\ 12 \times 60 = 720 \\ 12 \times 8 = \underline{96} \\ 9216 \end{array}$$

3. Multiply 768 by 2. Multiply 768 by 10. Add.

$\begin{array}{r} 768 \\ \times 12 \\ \hline 1536 \end{array}$	$\begin{array}{r} 768 \\ \times 12 \\ \hline 1536 \\ \hline 7680 \end{array}$	$\begin{array}{r} 768 \\ \times 12 \\ \hline 1536 \\ \hline 7680 \\ \hline 9216 \end{array}$
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Multiplication: Whole Numbers (1)

1.
$$\begin{array}{r} 82 \\ \times 4 \\ \hline 328 \end{array}$$

$$\begin{array}{r} 96 \\ \times 7 \\ \hline 672 \end{array}$$

$$\begin{array}{r} 75 \\ \times 5 \\ \hline 375 \end{array}$$

$$\begin{array}{r} 64 \\ \times 6 \\ \hline 384 \end{array}$$

2.
$$\begin{array}{r} 90 \\ \times 8 \\ \hline 720 \end{array}$$

$$\begin{array}{r} 37 \\ \times 2 \\ \hline 74 \end{array}$$

$$\begin{array}{r} 84 \\ \times 9 \\ \hline 756 \end{array}$$

$$\begin{array}{r} 73 \\ \times 3 \\ \hline 219 \end{array}$$

3.
$$\begin{array}{r} 77 \\ \times 8 \\ \hline 616 \end{array}$$

$$\begin{array}{r} 54 \\ \times 6 \\ \hline 324 \end{array}$$

$$\begin{array}{r} 49 \\ \times 5 \\ \hline 245 \end{array}$$

$$\begin{array}{r} 70 \\ \times 7 \\ \hline 490 \end{array}$$

4.
$$\begin{array}{r} 206 \\ \times 7 \\ \hline 1442 \end{array}$$

$$\begin{array}{r} 538 \\ \times 5 \\ \hline 2690 \end{array}$$

$$\begin{array}{r} 790 \\ \times 9 \\ \hline 7110 \end{array}$$

$$\begin{array}{r} 817 \\ \times 4 \\ \hline 3268 \end{array}$$

5.
$$\begin{array}{r} 632 \\ \times 6 \\ \hline 3792 \end{array}$$

$$\begin{array}{r} 518 \\ \times 8 \\ \hline 4144 \end{array}$$

$$\begin{array}{r} 694 \\ \times 3 \\ \hline 2082 \end{array}$$

$$\begin{array}{r} 372 \\ \times 6 \\ \hline 2232 \end{array}$$

6.
$$\begin{array}{r} 945 \\ \times 7 \\ \hline 6615 \end{array}$$

$$\begin{array}{r} 737 \\ \times 2 \\ \hline 1474 \end{array}$$

$$\begin{array}{r} 864 \\ \times 8 \\ \hline 6912 \end{array}$$

$$\begin{array}{r} 943 \\ \times 7 \\ \hline 6601 \end{array}$$