

Adding 4-Digit Numbers



Quick Review

- $1756 + 4828$

Use column addition.

1000s	100s	10s	1s
1	7	5	6
+ 4	8	2	8
5	15	7	14
6	5	7	14
6	5	8	4

15 hundreds is 1 thousand 5 hundreds
14 ones is 1 ten 4 ones

- $1756 + 2469$

Add from right to left.

Add the ones. Regroup. Add the tens. Regroup. Add the hundreds. Regroup. Add the thousands.

$$\begin{array}{r} 1 \\ 1756 \\ + 2469 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 11 \\ 1756 \\ + 2469 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 111 \\ 1756 \\ + 2469 \\ \hline 225 \end{array}$$

$$\begin{array}{r} 111 \\ 1756 \\ + 2469 \\ \hline 4225 \end{array}$$

Estimate to check that the sum is reasonable.

1756 is close to 2000. 2469 is close to 2000. $2000 + 2000 = 4000$

4225 is close to 4000. So, the sum is reasonable.

Try These

1. Find each sum. Estimate to check.

a) $\begin{array}{r} 5558 \\ + 1343 \\ \hline \end{array}$

b) $\begin{array}{r} 3047 \\ + 2828 \\ \hline \end{array}$

c) $\begin{array}{r} 4189 \\ + 3673 \\ \hline \end{array}$

d) $\begin{array}{r} 1847 \\ + 5684 \\ \hline \end{array}$

2. Estimate each sum.

a) $3276 + 4192$
Estimate: _____

b) $1258 + 3769$
Estimate: _____

c) $2672 + 3409$
Estimate: _____

Practice

1. Play this game with a partner.

You will need:

1 number cube labelled 1 to 6

- ▶ Take turns rolling the number cube.
On each roll, both players record the digit rolled in one of the boxes in their first addition grid.
- ▶ After 8 rolls, players add.
The player with the greater sum wins.
- ▶ Repeat with the other addition grids.

Player A		Player B	
$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$	$\begin{array}{r} \square \square \square \square \\ + \square \square \square \square \\ \hline \end{array}$
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Stretch Your Thinking

The sum of two 4-digit numbers is 4589.

What might the two numbers be?

Give two different answers.