

# Inverse

***Inverse means to do the opposite.***

***The inverse of addition is subtraction.***

***The inverse of multiplication is division.***

Answer the question, then complete the inverse to see if you were correct.

Here is a simple example.

$$2+3=5$$

$$5-3=2$$

As you can see, the same three numbers have been used in both calculations.

Here is an example that looks more like your work...

3421	4672
<u>1251</u> +	<u>1251</u> -
4672	3421

As you can see, the same three numbers still been used in both calculations.

KM inverse work

Addition

2541	
+ 5235	
<u>      </u>	- <u>      </u>
<u>      </u>	<u>      </u>

4672	
+ 4221	
<u>      </u>	- <u>      </u>
<u>      </u>	<u>      </u>

4482	
+ 5502	
<u>      </u>	- <u>      </u>
<u>      </u>	<u>      </u>

Subtraction

8017	
- 5004	
<u>      </u>	+ <u>      </u>
<u>      </u>	<u>      </u>

6558	
- 4341	
<u>      </u>	+ <u>      </u>
<u>      </u>	<u>      </u>

6482	
- 4151	
<u>      </u>	+ <u>      </u>
<u>      </u>	<u>      </u>

### HBS inverse work

#### Addition and subtraction

$\begin{array}{r} 5391 \\ + 8468 \\ \hline \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} 7894 \\ - 3918 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$
$\begin{array}{r} 3204 \\ + 3184 \\ \hline \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} 6873 \\ - 5175 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$
$\begin{array}{r} 4659 \\ + 5691 \\ \hline \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} 7327 \\ - 5309 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$

### CH inverse work

#### Adding and subtracting decimals

$\begin{array}{r} \pounds 7.63 \\ + \pounds 15.75 \\ \hline \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} \pounds 27.89 \\ - \pounds 18.92 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$
$\begin{array}{r} \pounds 23.48 \\ + \pounds 18.68 \\ \hline \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} \pounds 82.83 \\ - \pounds 54.79 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$
$\begin{array}{r} \pounds 256.72 \\ + \pounds 334.67 \\ \hline \end{array}$	$\begin{array}{r} - \\ \hline \end{array}$	$\begin{array}{r} \pounds 167.63 \\ - \pounds 85.45 \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$

Challenge – work out the answer and then write the inverse below to check it

- |   |   |   |
|---|---|---|
| 1. 345  | 2. 769  | 3. 259  |
| $\begin{array}{r} \underline{\quad 7x \quad} \end{array}$ | $\begin{array}{r} \underline{\quad 4x \quad} \end{array}$ | $\begin{array}{r} \underline{\quad 6x \quad} \end{array}$ |