Mega Mathematician

I can use inverse operations to check answers to calculations.

Calculate the answers to the following calculations and check by using the inverse operation.

1. $\begin{array}{r} 7834 \\ +\ 3621 \\ \hline \end{array}$ $-$ _____

2. $\begin{array}{r} 4693 \\ -\ 3142 \\ \hline \end{array}$ $+$ _____

3. $\begin{array}{r} 4078 \\ +\ 2815 \\ \hline \end{array}$ $-$ _____

4. $\begin{array}{r} 5634 \\ -\ 3471 \\ \hline \end{array}$ $+$ _____

5. $\begin{array}{r} 12\ 674 \\ +\ 1\ 215 \\ \hline \end{array}$ $-$ _____

6. $\begin{array}{r} 26\ 489 \\ +\ 11\ 214 \\ \hline \end{array}$ $-$ _____

7. $\begin{array}{r} 36\ 545 \\ -\ 21\ 313 \\ \hline \end{array}$ $+$ _____

8. $\begin{array}{r} 57\ 624 \\ +\ 21\ 446 \\ \hline \end{array}$ $-$ _____

9. $\begin{array}{r} 31\ 675 \\ -\ 20\ 262 \\ \hline \end{array}$ $+$ _____

10. $\begin{array}{r} 73\ 993 \\ -\ 41\ 723 \\ \hline \end{array}$ $+$ _____

Mega Mathematician

Use the inverse operation to check if these calculations are correct:

$$\begin{array}{r} 8674 \\ -\ 4532 \\ \hline 4242 \end{array}$$
$+$ _____

Correct/Incorrect

$$\begin{array}{r} 6784 \\ +\ 2514 \\ \hline 9298 \end{array}$$
$-$ _____

Correct/Incorrect

$$\begin{array}{r} 14\ 636 \\ +\ 21\ 353 \\ \hline 33\ 989 \end{array}$$
$-$ _____

Correct/Incorrect

Mega Mathematician **Answers**

1.
$$
\begin{array}{r}
7\ 834 \\
+\ 3\ 621 \\
\hline
\mathbf{11\ 455} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{11\ 455} \\
-\ \mathbf{3\ 621} \\
\hline
\mathbf{7\ 834} \\
\hline
\end{array}
$$

6.
$$
\begin{array}{r}
26\ 489 \\
+\ 11\ 214 \\
\hline
\mathbf{37\ 703} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{37\ 703} \\
-\ \mathbf{11\ 214} \\
\hline
\mathbf{26\ 489} \\
\hline
\end{array}
$$

2.
$$
\begin{array}{r}
4693 \\
-\ 3142 \\
\hline
\mathbf{1551} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{1551} \\
+\ \mathbf{3142} \\
\hline
\mathbf{4693} \\
\hline
\end{array}
$$

7.
$$
\begin{array}{r}
36\ 545 \\
-\ 21\ 313 \\
\hline
\mathbf{15\ 232} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{15\ 232} \\
+\ \mathbf{21\ 313} \\
\hline
\mathbf{36\ 545} \\
\hline
\end{array}
$$

3.
$$
\begin{array}{r}
4078 \\
+\ 2815 \\
\hline
\mathbf{6893} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{6893} \\
-\ \mathbf{2815} \\
\hline
\mathbf{4078} \\
\hline
\end{array}
$$

8.
$$
\begin{array}{r}
57\ 624 \\
+\ 21\ 446 \\
\hline
\mathbf{79\ 070} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{79\ 070} \\
-\ \mathbf{21\ 446} \\
\hline
\mathbf{57\ 624} \\
\hline
\end{array}
$$

4.
$$
\begin{array}{r}
5634 \\
-\ 3471 \\
\hline
\mathbf{2163} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{2163} \\
+\ \mathbf{3471} \\
\hline
\mathbf{5634} \\
\hline
\end{array}
$$

9.
$$
\begin{array}{r}
31\ 675 \\
-\ 20\ 262 \\
\hline
\mathbf{11\ 413} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{11\ 413} \\
+\ \mathbf{20\ 262} \\
\hline
\mathbf{31\ 675} \\
\hline
\end{array}
$$

5.
$$
\begin{array}{r}
12\ 674 \\
+\ 1\ 215 \\
\hline
\mathbf{13\ 889} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{13\ 889} \\
-\ \mathbf{1\ 215} \\
\hline
\mathbf{12\ 674} \\
\hline
\end{array}
$$

10.
$$
\begin{array}{r}
73\ 993 \\
-\ 41\ 723 \\
\hline
\mathbf{32\ 270} \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{32\ 270} \\
+\ \mathbf{41\ 723} \\
\hline
\mathbf{73\ 993} \\
\hline
\end{array}
$$

Mega Mathematician **Answers**

$$
\begin{array}{r}
8674 \\
-4532 \\
\hline
4242 \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{4242} \\
+\mathbf{4532} \\
\hline
\mathbf{8774} \\
\hline
\end{array}
$$

Correct / **Incorrect**

$$
\begin{array}{r}
6784 \\
+2514 \\
\hline
9298 \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{9298} \\
-\mathbf{2514} \\
\hline
\mathbf{6784} \\
\hline
\end{array}
$$

Correct / Incorrect

$$
\begin{array}{r}
14\ 636 \\
+21\ 353 \\
\hline
33\ 989 \\
\hline
\end{array}
\qquad
\begin{array}{r}
\mathbf{33\ 989} \\
-\mathbf{21\ 353} \\
\hline
\mathbf{12\ 636} \\
\hline
\end{array}
$$

Correct / **Incorrect**

Mega Mathematician

I can use inverse operations to check answers to calculations.

Calculate the answers to the following calculations and check by using the inverse operation.

1.   3 047
    + 84 602   –
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

2.   26 489
    + 11 214   –
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

3.   36 545
    – 21 313   +
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

4.   57 624
    + 21 446   –
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

5.   31 675
    – 20 262   +
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

6.   73 993
    – 41 723   +
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

7.   26 713
    + 53 475   –
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

8.   60 724
    – 33 251   +
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

9.   74 658
    – 71 943   +
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

10.   50 004
    – 32 061   +
    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   ‾‾‾‾‾‾‾‾

Mega Mathematician

Use the inverse operation to check if these calculations are correct:

$$
\begin{array}{r}
44\ 735 \\
-\ 27\ 621 \\
\hline
72\ 365 \\
\hline
\end{array}
\qquad + \underline{\hspace{2cm}}
$$

Correct/Incorrect

$$
\begin{array}{r}
56\ 472 \\
+\ 41\ 653 \\
\hline
14\ 219 \\
\hline
\end{array}
\qquad - \underline{\hspace{2cm}}
$$

Correct/Incorrect

$$
\begin{array}{r}
60\ 407 \\
+\ 72\ 364 \\
\hline
132\ 761 \\
\hline
\end{array}
\qquad - \underline{\hspace{2cm}}
$$

Correct/Incorrect

Challenge – can you explain what mistakes have been made and can you correct them?

Mega Mathematician

Answers

1. $\begin{array}{r} 3\ 047 \\ +\ 84\ 602 \\ \hline \textbf{87 649} \end{array}$ $\begin{array}{r} \textbf{87 649} \\ -\ \textbf{84 602} \\ \hline \textbf{3047} \end{array}$

6. $\begin{array}{r} 73\ 993 \\ -\ 41\ 723 \\ \hline \textbf{32 270} \end{array}$ $\begin{array}{r} \textbf{32 270} \\ +\ \textbf{41 723} \\ \hline \textbf{73 993} \end{array}$

2. $\begin{array}{r} 26\ 489 \\ +\ 11\ 214 \\ \hline \textbf{37 703} \end{array}$ $\begin{array}{r} \textbf{37 703} \\ -\ \textbf{11 214} \\ \hline \textbf{26 489} \end{array}$

7. $\begin{array}{r} 26\ 713 \\ +\ 53\ 475 \\ \hline \textbf{80 188} \end{array}$ $\begin{array}{r} \textbf{80 188} \\ -\ \textbf{53 475} \\ \hline \textbf{26 713} \end{array}$

3. $\begin{array}{r} 36\ 545 \\ -\ 21\ 313 \\ \hline \textbf{15 232} \end{array}$ $\begin{array}{r} \textbf{15 232} \\ +\ \textbf{21 313} \\ \hline \textbf{36 545} \end{array}$

8. $\begin{array}{r} 60\ 724 \\ -\ 33\ 251 \\ \hline \textbf{27 473} \end{array}$ $\begin{array}{r} \textbf{27 473} \\ +\ \textbf{33 251} \\ \hline \textbf{60 724} \end{array}$

4. $\begin{array}{r} 57\ 624 \\ +\ 21\ 446 \\ \hline \textbf{59 070} \end{array}$ $\begin{array}{r} \textbf{79 070} \\ -\ \textbf{21 446} \\ \hline \textbf{57 624} \end{array}$

9. $\begin{array}{r} 74\ 658 \\ -\ 71\ 943 \\ \hline \textbf{2715} \end{array}$ $\begin{array}{r} \textbf{2715} \\ +\ \textbf{71 943} \\ \hline \textbf{74 685} \end{array}$

5. $\begin{array}{r} 31\ 675 \\ -\ 20\ 262 \\ \hline \textbf{11 413} \end{array}$ $\begin{array}{r} \textbf{11 413} \\ +\ \textbf{20 262} \\ \hline \textbf{31 675} \end{array}$

10. $\begin{array}{r} 50\ 004 \\ -\ 32\ 061 \\ \hline \textbf{17 942} \end{array}$ $\begin{array}{r} \textbf{17 943} \\ +\ \textbf{32 061} \\ \hline \textbf{50 004} \end{array}$

Mega Mathematician Answers

Use the inverse operation to check if these calculations are correct:

44 735	**72 365**	
− 27 621	+ **27 621**	(**Correct**)/Incorrect
72 365	**44 735**	

56 472	**14 219**	
+ 41 653	− **41 653**	Correct/(**Incorrect**)
14 219	**55 872**	

60 407	**132 761**	
+ 72 364	− **72 364**	Correct/(**Incorrect**)
132 761	**60 397**	

Mega Mathematician

I can use inverse operations to check answers to calculations.

Calculate the answers to the following calculations and check by using the inverse operation.

1. 73 993
    − 41 723
    _____   + _____

    _____   _____

2. 26 713
    + 53 475
    _____   − _____

    _____   _____

3. 60 724
    − 33 251
    _____   + _____

    _____   _____

4. 74 658
    − 71 943
    _____   + _____

    _____   _____

5. 50 004
    − 32 061
    _____   + _____

    _____   _____

6. 243.26
    + 164.73
    _____   − _____

    _____   _____

7. 4739.4
    − 1374.3
    _____   + _____

    _____   _____

8. 267.07
    + 932.42
    _____   − _____

    _____   _____

9. 974.65
    + 2335.3
    _____   − _____

    _____   _____

10. 321 695
    − 205 293
    _____   + _____

    _____   _____

Mega Mathematician

Use the inverse operation to check if these calculations are correct:

$$\begin{array}{r} 36\ 786 \\ -\ 25\ 939 \\ \hline 11\ 847 \\ \hline \end{array}$$

+ _____

_____

Correct/Incorrect

$$\begin{array}{r} 327.64 \\ +\ 7109.2 \\ \hline 7436.84 \\ \hline \end{array}$$

− _____

_____

Correct/Incorrect

$$\begin{array}{r} 300.42 \\ -\ 193.05 \\ \hline 197.38 \\ \hline \end{array}$$

+ _____

_____

Correct/Incorrect

Challenge – can you explain what mistakes have been made and can you correct them?

Mega Mathematician

Answers

1.
$$\begin{array}{r} 73\ 993 \\ -\ 41\ 723 \\ \hline \mathbf{32\ 270} \end{array}$$
$$\begin{array}{r} \mathbf{32\ 270} \\ +\ \mathbf{41\ 723} \\ \hline \mathbf{73\ 993} \end{array}$$

6.
$$\begin{array}{r} 243.26 \\ +\ 164.73 \\ \hline \mathbf{407.99} \end{array}$$
$$\begin{array}{r} \mathbf{407.99} \\ -\ \mathbf{164.73} \\ \hline \mathbf{243.26} \end{array}$$

2.
$$\begin{array}{r} 26\ 713 \\ +\ 53\ 475 \\ \hline \mathbf{80\ 188} \end{array}$$
$$\begin{array}{r} \mathbf{80\ 188} \\ -\ \mathbf{53\ 475} \\ \hline \mathbf{26\ 713} \end{array}$$

7.
$$\begin{array}{r} 4739.4 \\ -\ 1374.3 \\ \hline \mathbf{3365.1} \end{array}$$
$$\begin{array}{r} \mathbf{3365.1} \\ +\ \mathbf{1374.3} \\ \hline \mathbf{4739.4} \end{array}$$

3.
$$\begin{array}{r} 60\ 724 \\ -\ 33\ 251 \\ \hline \mathbf{27\ 473} \end{array}$$
$$\begin{array}{r} \mathbf{27\ 473} \\ +\ \mathbf{33\ 251} \\ \hline \mathbf{60\ 724} \end{array}$$

8.
$$\begin{array}{r} 267.07 \\ +\ 932.42 \\ \hline \mathbf{1199.49} \end{array}$$
$$\begin{array}{r} \mathbf{1199.49} \\ -\ \mathbf{932.42} \\ \hline \mathbf{267.07} \end{array}$$

4.
$$\begin{array}{r} 74\ 658 \\ -\ 71\ 943 \\ \hline \mathbf{2\ 715} \end{array}$$
$$\begin{array}{r} \mathbf{2\ 715} \\ +\ \mathbf{71\ 943} \\ \hline \mathbf{74\ 658} \end{array}$$

9.
$$\begin{array}{r} 974.65 \\ +\ 2335.3 \\ \hline \mathbf{3309.95} \end{array}$$
$$\begin{array}{r} \mathbf{3309.95} \\ -\ \mathbf{2335.3} \\ \hline \mathbf{974.65} \end{array}$$

5.
$$\begin{array}{r} 50\ 004 \\ -\ 32\ 061 \\ \hline \mathbf{17\ 943} \end{array}$$
$$\begin{array}{r} \mathbf{17\ 943} \\ +\ \mathbf{32\ 061} \\ \hline \mathbf{50\ 004} \end{array}$$

10.
$$\begin{array}{r} 321\ 695 \\ -\ 205\ 293 \\ \hline \mathbf{116\ 402} \end{array}$$
$$\begin{array}{r} \mathbf{116\ 402} \\ +\ \mathbf{205\ 293} \\ \hline \mathbf{321\ 695} \end{array}$$

Mega Mathematician **Answers**

Use the inverse operation to check if these calculations are correct:

	36 786		**11 847**	Correct/~~Incorrect~~
−	25 939	+	**25 939**	
	11 847		**37 786**	

	327.64		**7436.84**	~~Correct~~/Incorrect
+	7109.2	−	**7109.2**	
	7436.84		**327.64**	

	300.42		**197.38**	Correct/~~Incorrect~~
−	193.05	+	**193.05**	
	197.38		**390.42**	

Challenge – can you explain what mistakes have been made and can you correct them?