

# Addition and Subtraction Formal Methods

## Maths Mastery Challenge Cards



Maths Mastery - Addition and Subtraction Formal Methods

1. Can you spot the mistakes that have been made in these formal written addition questions? Write the correct answer below.

$$\begin{array}{r} 682 \\ + 283 \\ \hline 8165 \\ \hline \end{array}$$

$$\begin{array}{r} 729 \\ + 364 \\ \hline 1083 \\ \hline \end{array}$$

$$\begin{array}{r} 486 \\ + 347 \\ \hline 833 \\ \hline \end{array}$$

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2. Can you spot what is missing from these formal subtraction questions? Write the correct formal subtraction below.

$$\begin{array}{r} 823 \\ - 417 \\ \hline 406 \\ \hline \end{array}$$

$$\begin{array}{r} 745 \\ - 261 \\ \hline 484 \\ \hline \end{array}$$

$$\begin{array}{r} 601 \\ - 437 \\ \hline 164 \\ \hline \end{array}$$

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3. Using Formal Methods

Calculate the missing number using formal methods.

$$4056 + \boxed{\phantom{0000}} = 8999$$

$$2175 = \boxed{\phantom{0000}} - 3881$$

$$7217 - \boxed{\phantom{0000}} = 2276$$

$$6802 = \boxed{\phantom{0000}} - 4597$$

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4. Formal Subtraction

$$\begin{array}{r} \_57 \\ + 28\_ \\ \hline 7\_3 \end{array}$$

$$\begin{array}{r} 7\_3 \\ - \_85 \\ \hline 45\_ \end{array}$$

$$\begin{array}{r} 6\_ \\ - \_74 \\ \hline 297 \end{array}$$

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Answers

1.

$$\begin{array}{r} 682 \\ + 283 \\ \hline 8165 \end{array}$$

80 + 80 = 160, but the hundred must be carried to add to the 600 + 200. The answer is 965.

$$\begin{array}{r} 729 \\ + 364 \\ \hline 1083 \end{array}$$

The carried 10 must be added to the 8. The answer is 1093.

$$\begin{array}{r} 486 \\ + 347 \\ \hline 833 \end{array}$$

2.

$$\begin{array}{r} 823 \\ - 417 \\ \hline 406 \end{array}$$

$$\begin{array}{r} 745 \\ - 261 \\ \hline 484 \end{array}$$

$$\begin{array}{r} 601 \\ - 437 \\ \hline 164 \end{array}$$

3.

$$4056 + 4943 = 8999$$

$$2175 = 6056 - 3881$$

$$7217 - 4941 = 2276$$

$$6802 = 11399 - 4597$$

4.

$$\begin{array}{r} 457 \\ + 286 \\ \hline 743 \end{array}$$

$$\begin{array}{r} 743 \\ - 285 \\ \hline 458 \end{array}$$

$$\begin{array}{r} 671 \\ - 374 \\ \hline 297 \end{array}$$