

| | National Curriculum Statement | All students | | |
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| | | Fluency | Reasoning | Problem Solving |
| Addition and Subtraction | Add and subtract numbers mentally with increasingly large numbers. | <ul style="list-style-type: none"> Work out this missing numbers: $\underline{\quad} - 92 = 145$ $740 + \underline{\quad} = 1039$ $\underline{\quad} = 580 - 401$ Peter bought boxes of crisps when they were on offer. After 12 weeks, his family had eaten 513 packets and there were 714 left. How many did he buy? Children follow a series of instructions to find a mystery number. Eg Start with 100. Add 5000. Take away 400. Add 20. Subtract 750. What number have you got? | <ul style="list-style-type: none"> Rachel has £10. She spends £6.49 at the shop. Would you use columnar subtraction to work out the answer? Explain why. True or False? Are these number sentences true or false? $8.7 + 0.4 = 8.11$ $6.1 - 0.9 = 5.2$ Give your reasons. Which of the following questions are easy and which ones are hard? $213323 - 10 =$ $512893 + 300 =$ $819354 - 200 =$ $319954 + 100 =$ Explain why you think the hard questions are hard. | <ul style="list-style-type: none"> If 2541 is the answer, what's the question? - Can you create three addition calculations? - Can you create three subtraction calculations? - Did you use a strategy? Using 0-9 dice roll 3 at the same time to create a number. Your partner needs to do the same. - Who can add them together correctly first? - Who can subtract the smallest from the largest correctly first? Use a calculator to check. Kangchenjunga is the third highest mountain in the world at 28,169 feet above sea level. Lhotse is the fourth highest at 27,960 feet above sea level. Find the difference in heights mentally. |

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| Addition and Subtraction | Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) | <ul style="list-style-type: none"> Calculate: $1638 + 2517$ $4023 - 2918$ Julie has 1578 stamps, Heidi has 2456 stamps. How many stamps do they have altogether? Show how you can check your answer using the inverse. Adam earns £37,566 pounds a year. His wife, Sarah, earns £22,819 a year. How much do they earn altogether? They have to pay £7887 income tax per year, how much are they left with after this is taken off? | <ul style="list-style-type: none"> There are mistakes in the following calculations. Explain the mistake and then make a correction to find the correct answer. $\begin{array}{r} 2451 \\ +562 \\ \hline 8071 \end{array}$ $\begin{array}{r} 782 \\ -435 \\ \hline 353 \end{array}$ $\square + 3475 = 6\square24$ What numbers go in the boxes? What different answers are there? Convince me. A five digit number and a four digit number have a difference of 4365. Give me three possible pairs of numbers. | <ul style="list-style-type: none"> Find the missing numbers in these calculations. $\begin{array}{r} 34\square1\square \\ -\square482 \\ \hline 292\square4 \end{array}$ $\begin{array}{r} 6\square02\square \\ +\square5\square51 \\ \hline \square9180 \end{array}$ My answer is 5398, what's the question? - Create 3 addition calculations. - Create 3 subtraction questions. - Did you use a strategy? Explain it. |