Key Stage 2

Addition and Subtraction

Year 3	Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
Year 4	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Year 5	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
Year 6	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Vocabulary

Put together, add, plus, altogether, total, take away, subtract, distance between, difference between, more than and less than, sum, difference, increase, decrease, fewer.

$$353 + 268 = 621$$
 $300 + 50 + 3$
 $200 + 60 + 8$
 $600 + 20 + 1 = 621$

$$457 - 226 = 231$$
 $400 + 50 + 7$
 $200 + 20 + 6$
 $200 + 30 + 1$
 $= 23$

$$534 - 265 = 269$$
 $400 + 30 + 4$
 $200 + 60 + 5$
 $200 + 60 + 9 = 269$

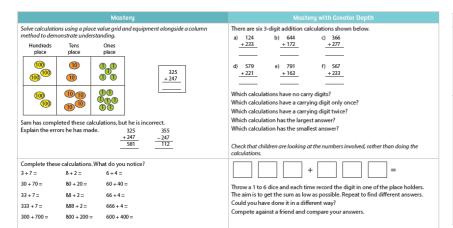
<u>Strategies</u>

Expanded Column Method; Compact Column Method.

Strategies from KS1 may be used where appropriate to support transition to KS2 strategies and to support mental addition and subtraction.

932 – 457 becomes

Answer: 475



Mastery	Mastery with Greater Depth
Fill in the missing numbers. 352 + = 480 70 + 99 + = = 270 - 55 = 84 - 3000 = 600	Fill in the missing digits. $1 $
What do you notice about the calculations below? Can you find easy ways to calculate? 5000 + 4000 =	Find the missing numbers. What do you notice? Make 9999 5000 +

Mastery						Mastery with Greater Depth
The table shows the cost of train tickets from different cities. What is the total cost for a return journey to York for one adult and two children? How much more does it cost for two adults to make a single journey to Hull than to Leeds?					adult and two	Sam and Tom have £67-80 between them. If Sam has £6-20 more than Tom, how much does Tom have? The bar model can help children solve these type of problems, please visit ncetm.org for further information on how to build understanding. Sam + £6-20
			York	Hull	Leeds	
'	Adult	Single	£13-50	£16-60	£11-00	£67·80
		Return	£24-50	£30-00	£20-00	Tom £67-80 - £6-20 = £61-60 £61-60 + 2 = £30-80
	Child	Single	£9.75	£11-00	£8-00	
		Return	£15-00	£18-50	£13-50	
						Tom has £30-80