Subtracting whole numbers with more than 4 digits **0**



Solve the following calculations.

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a)	·	73,200
	25,000	

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b) [48,923	
	37,382	

	TTh Th	Н	Т	0
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a) A house costs £127,365. The house next door costs £102,724. How much less does the house next door cost?

The house next door costs £

b) A new car costs £18,495. A motorbike costs £7,620. How much cheaper is the motorbike than the car?

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The motorbike is £ cheaper than the car. 4 Fill in the missing digits.



a) TTh Th H T O
2 6 1 8
- 4 2
2 4 5 0

b)	,	TTh	Th	Н	T_	0
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	_	ļ		6	2	7
	,	3	5		5	
		_3	_5_		5_	

(5) T

Three chests each contain some treasure.

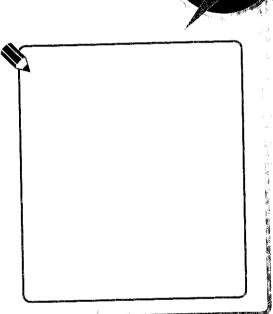
- The first chest contains 18,455 coins.
- The second chest contains 4,200 fewer coins than the first chest.
- The third chest contains 5,120 fewer coins than the second chest.

How many coins are in each treasure chest?

The first chest contains coins.

The second chest contains coins.

The third chest contains coins.

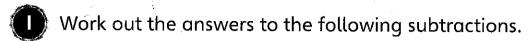


Reflect

Imagine you are teaching a partner how to work out 32,728 – 14,605. Explain each step to them.

70. a	

Subtracting whole numbers with more than 4 digits 2



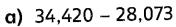
You can use the counters and place value grids to help you.

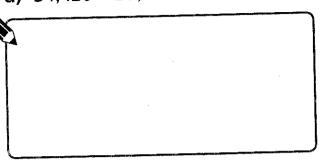
Th	H	T	0
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_	Th	Н	Т	0	
	7	2	4	3	
_	4	8	2	6	
•					

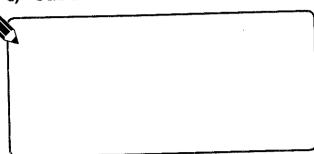
TTh	Th	Н	T	0
				00000 000
			• •	

Work out the answers to the following subtractions.

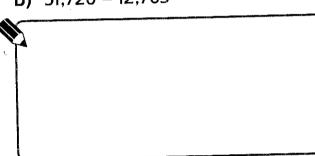




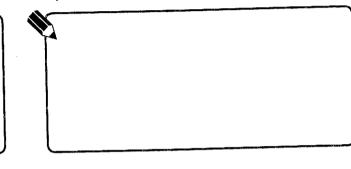
c) Subtract 729 from 84,381



b) 51,726 – 12,763



d) 729,482 – 78,359



A ball pool contains 76,350 balls. 18,926 balls are removed each hour.

How many balls are left in the ball pool after 3 hours?

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There are balls left in the ball pool after 3 hours.

4 Fill in the missing digits.

(5)	Find	the	answers	to	the	following	calculations
-----	------	-----	---------	----	-----	-----------	--------------

a) 2	,700 –	1,375	=	
------	--------	-------	---	--

b)	27,000 -	18,904 =	
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349,500 people attend a charity concert. There are 186,956 adults at the concert and the rest are children. Of the children who attend, 73,290 are girls.

How many boys

How many boys	
attend the concert?	
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hovs atte	d the concert.
Doys acter	a the concert.

Reflect

Max subtracts a 5-digit number from a 5-digit number. It involves two exchanges.

Write a possible subtraction. Explain how you know it involves two exchanges.

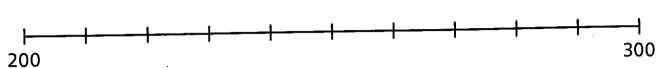
437	
(1)	



Using rounding to estimate and check answers



Use rounding to estimate the answers to the following calculations.



297 is close to

204 is close to

+ =

So, 297 + 204 must be close to

b) 6,985 – 1,995

6,985 is close to .

1,995 is close to ______

_ = ____

So, 6,985 – 1,995 must be close to

c) 311 + 7,189

3II is close to

7,189 is close to _______.

+ =

So, 311 + 7,189 must be close to

2	Bella	is	working	out a	question.
3. 25					b

a) Use rounding to show that Bella's answer must be incorrect.

12,005 is close to

7,620 is close to

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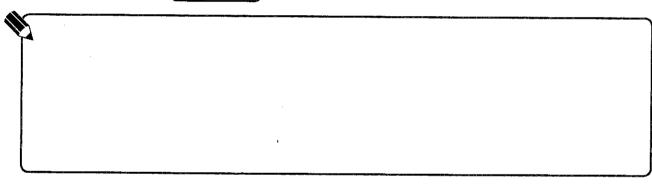
1 2 0 0 5

+ 7 6 2 0

8 8 2 0 5

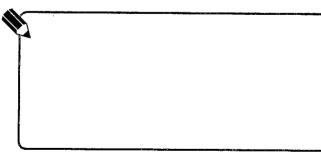
b) What mistake has Bella made?

c) What is the correct answer to the calculation?

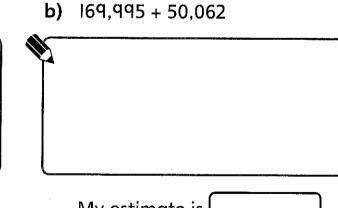


3 Estimate the answer to each of these calculations.

a) 3,395 – 207

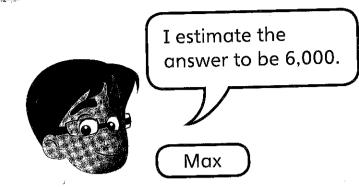


My estimate is



My estimate is .

Max and Jamie are estimating the answer to 2,187 + 3,703.



I estimate the answer to be 5,900.

Jamie



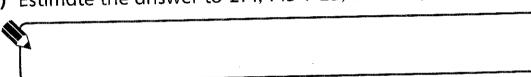
Explain how Max and Jamie made their estimates.

Max made his estimate by _____

Jamie made her estimate by _____



a) Estimate the answer to £19,995 + £3,941 - £4,081.





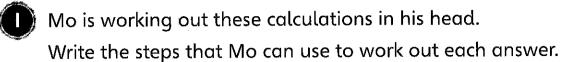
b) What is the exact answer to the calculation?

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It is useful to estimate an answer to a calculation because

	(3)
	(F)

Mental addition and subtraction ①



a)
$$45 + 32$$
 $40 + 30 = \boxed{ }$
 $5 + 2 = \boxed{ }$
 $45 + 32 = \boxed{ } + \boxed{ } = \boxed{ }$

b) 56 + 28 =	c) 5 + 374 =

c) 5 + 374 =

$$12,000 + 72,000 =$$

Mo is trying to work out the missing number in his head to this calculation:

= 90

First I work out how many I need to add on to make the next 10.

Мо

Then I work out how many 10s I need to add.



Complete the calculation that Mo might do in his head to find the answer.

The missing number is

Use Mo's method in question 3, or your own method, to mentally work out these missing numbers.

a)
$$56 + \{ \} = 80$$

d)
$$33 +$$
 $= 100$

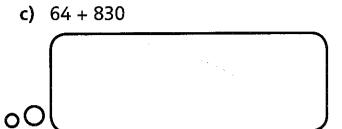
b)
$$+ 14 = 70$$

Solve the following calculations mentally.

f)
$$1,800 + \boxed{} = 3,000$$

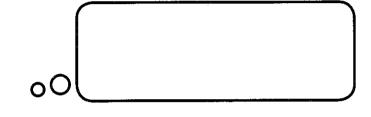
Fill in the thought bubbles to show how you can work out each of these calculations in your head.

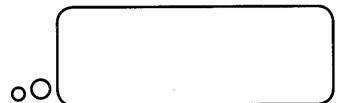
a) 64 + 83 00



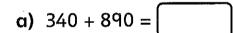
b) 260 + 197

d)
$$125 + \boxed{} = 700$$





Solve these problems mentally.





Reflect

Explain how you can work out each of these calculations in your head.

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Mental addition and subtraction 2



a) Complete these two mental methods for working out 78 – 25.

78 – 20 =
_ 5 =
So, 78 – 25 =
0

70 – 20 =
8 – 5 =
So, 78 – 25 =
0

b) Complete these two mental methods for working out 670 – 220.

2 Solve these calculations mentally.

$$6,400 - 2,100 =$$

3 Jamie is trying to work out the answer to this calculation in her head.



85 – 37



First I subtract 30.

I then subtract 5 to take me to the next 10.

Jamie

I now subtract 2 more.

a) Complete the calculation Jamie has done in her head.

b) Show Jamie's method on the number line below.

----| 85

Work out these calculations mentally.

Solve these calculations in your head.

g) The difference between 8,002 and 7,997 is ______.



6 Solve these problems mentally.

Reflect

Subtract 792 from 801 in your head.

Explain how you did it, and why you did it like this.

((1)	
	3)	
· •	1	



c)

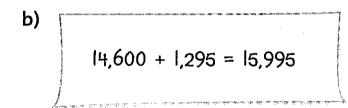
Using inverse operations

Work out an inverse calculation to check each answer below.

Then tick the box next to the correct statement.

The answer is correct.

The answer is incorrect.



The answer is correct.

The answer is incorrect.

The answer is incorrect.

	TTh Th H T	O
37,010 - 18,482 = 18,468	+	
The answer is correct.	Copposition of the Copposition o	