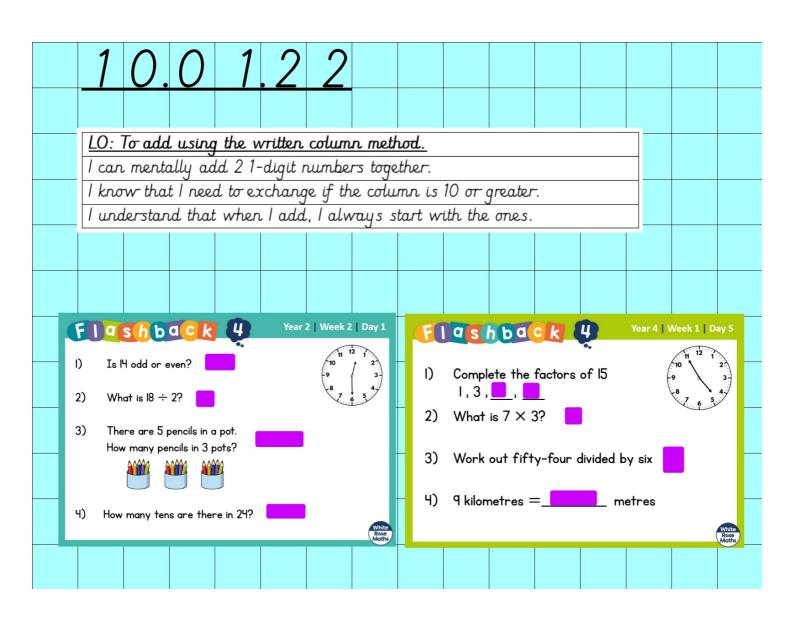
Addition and Subtraction

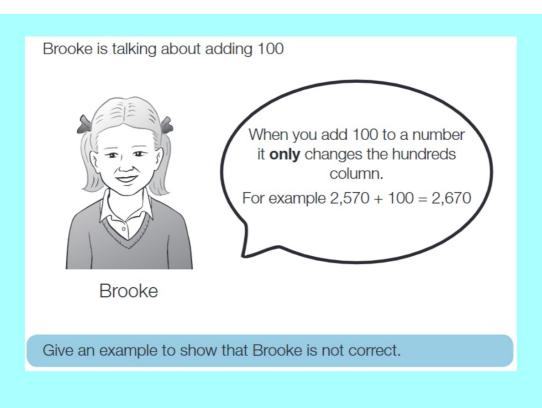


Place Value Grid Calculation H T 0 1 2 + 1 3 Go over 2-digit adding here, then group A start.

			=	1	6	4	2	+	4	5	3	9

L	+ 6	2			(8 (
+	2	5		+	1 1			
					5 2			
	<u> 8</u>				<u> </u>			
					1			

There are 2,775 vehicles in the car park. 1129 cars, 695 motorbikes and the rest are vans. How many vans are in the car park? Use a bar model to represent the problem.



Jemima has £352

Henry has £1,000 more than Jemima.

How much money do they have altogether?
Use a <u>bar model</u> to help with your working out.

the total of 4.844 and 2.156

TIC TO	tat 01 4,04-	+ and 2,100	
'h	Н	Т	0
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•	•	0000	000

	4	8	4	4
+	2	1	5	6

<, > or = to make the statements correct.

$$3,456 + 789$$

1,810 + 2,436

2,312 + 2,418

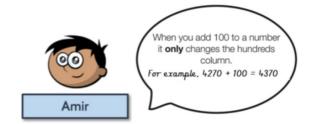
4.

Complete the missing digits.



5.

Amir is talking about adding 100.



Give an example to show that Amir is not correct.

re 6,128 people in a village.

e women, 2,811 are men and the rest ren.

e the bar model to represent this.

	?

ny children are there?

re 12,560 people in the hotel. lults, 6695 children and the rest are low many staff are at the hotel?

ar model to represent the problem.

8.

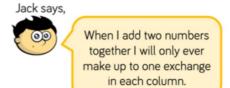
Jack has £256 Eva has £1000 more than Jack.



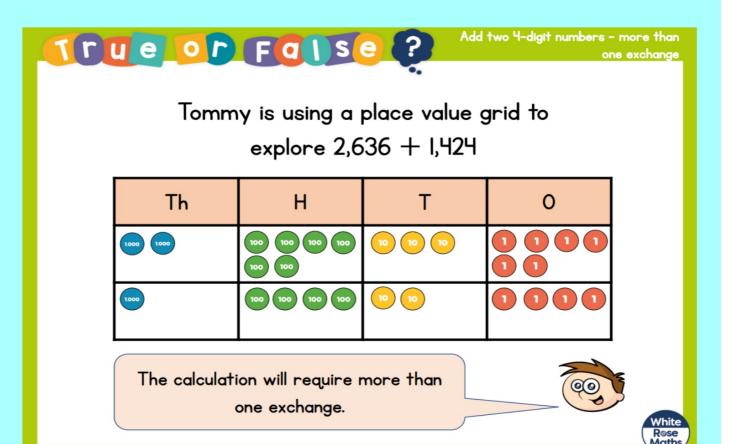


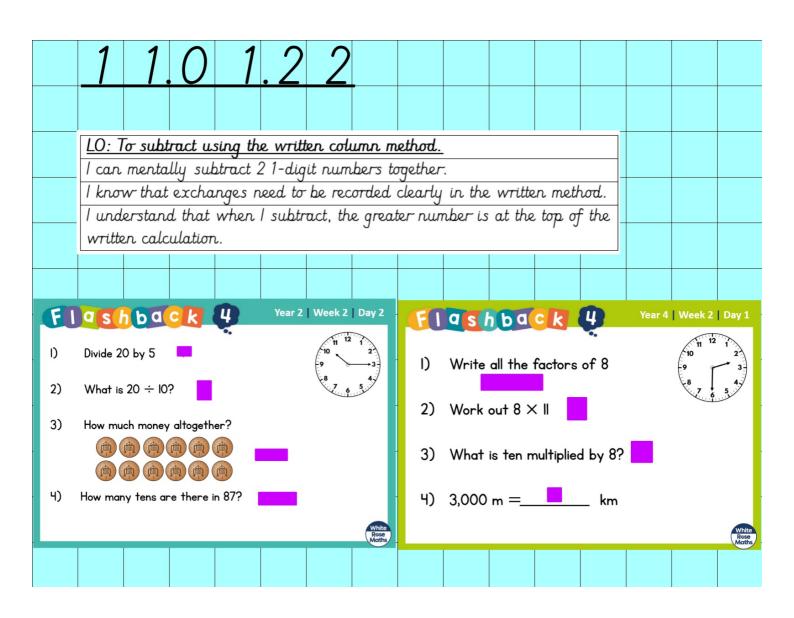
How much money do they have altogether? Use a <u>bar model</u> to help with your working out.

9.



Do you agree? Explain your reasoning.





Place Value Grid Calculation H T 0 5 5 - 3 2 Do more examples if needed, no exchange.

Place Value Grid Calculation H T 0 5 1 - 1 2 Go over 2-digit subtraction here, then group A start. Do as many examples as needed with exchange.

4	0	3	8	-	2	6	6	7	=	

4	0	4	8	-	4	8	6	=		

Complete the missing number to make this statement true. 385+ = 1,020

	ora an				_		ens.			
	ora ha Io has						han D	oro		
IVI	O Has	conec	leo 7.	30 luk	ens ie	weru	ilali D	ora.		
Re	eprese	ent thi	s scer	ario o	n a ba	ar mo	del.			
W	/hat ca	an you	find (out?						

A shop has 7,365 magazines.

384 are sold in the morning and 744 are sold in the afternoon.

How many magazines are left?

		7,365
384	744	?

There are ____ magazines left.

You are going to need to draw bar models today in your work!

1.

2.

Complete the missing number to make this statement true.

3.

4.

Dora and Mo are collecting book tokens. Dora has collected 1,452 tokens. Mo has collected 621 tokens fewer than Dora.

Represent this scenario on a bar model. What can you find out?

5.

A shop has 8,435 magazines. 367 are sold in the morning and 579 are sold in the afternoon.

How many magazines are left?

		8,435
367	579	?

There are ____ magazines left.

6.

A supermarket has 1284 loaves of bread at the start of the day. During the day, 857 loaves are sold and a further 589 loaves are delivered. How many loaves of bread are there at the end of the day?

7.

John is having a garden party. He will need to make 4,250 sandwiches in total.

He makes 1,500 tuna, 750 cheese, 1,350 ham and 920 egg.

He decides to make the rest cucumber. How many cucumber sandwiches will there be?

8.

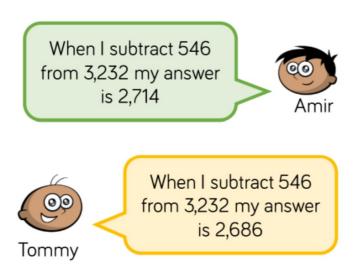
On Monday, Tony cycles 1,340 metres.

On Tuesday, he cycles 2 kilometres.

What is the difference between the distances he cycles on Monday and Tuesday?

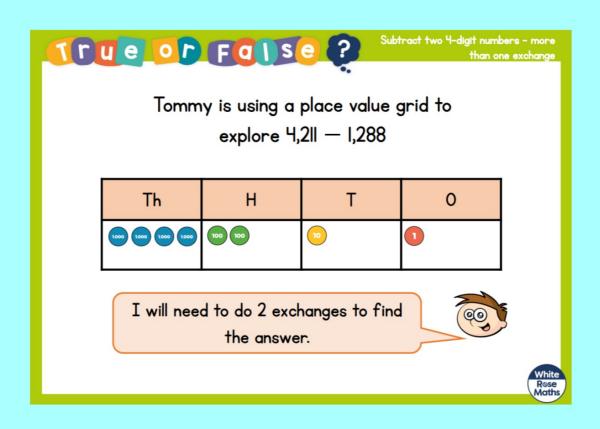
Give your answer in metres.

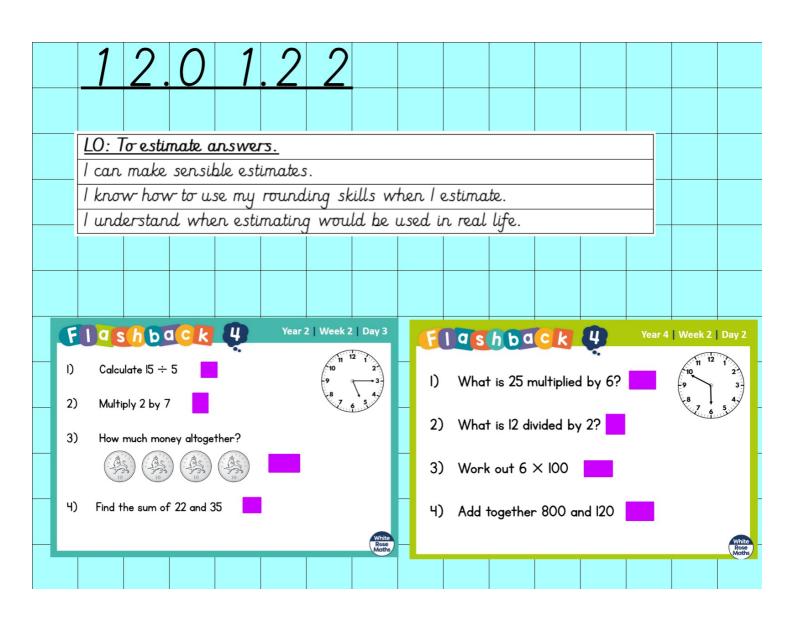
9. Amir and Tommy solve a problem.



Who is correct? Explain your reasoning. Why is one of the answers wrong?

Use a model of proof! ... The column method, it will help when you explain in a sentence.



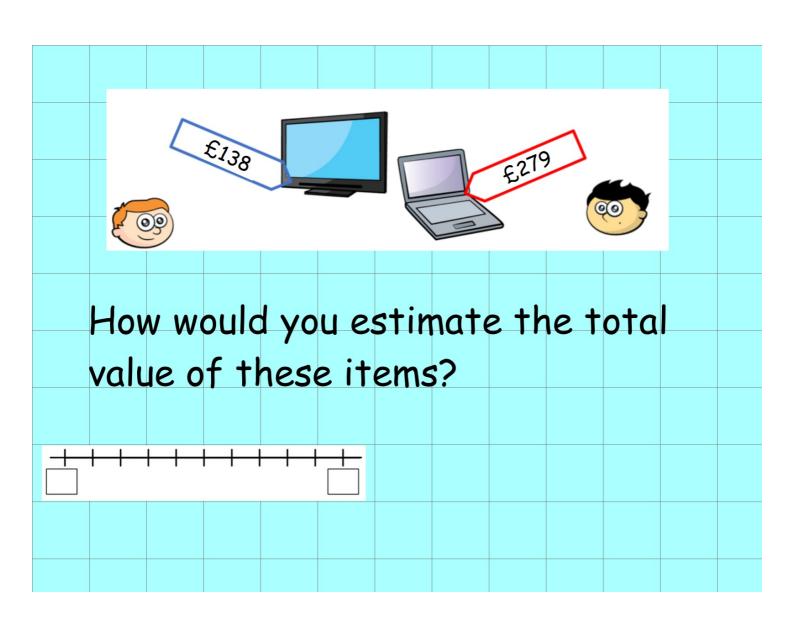


What does it mean to 'estimate'?

When would we use estimates in real life?

Let's recap rounding very quickly. You will use this to estimate today.

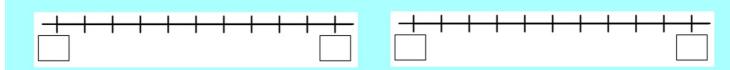
- 1) Round 365 to the nearest 100
- 2) Round 8,392 to the nearest 100
- 3) Round 8,392 to the nearest 1,000



Whitney has £437 Her uncle gives her £266 How much does Whitney have now?



£437 rounded to the nearest 100 is ______ £266 rounded to the nearest 100 is _____



The estimated answer is:

$$£400 + £300 =$$

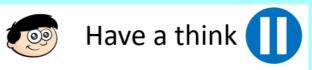
An estimated calculation is 800 + 300 = 1,100What additions could this be the estimate for?

A possible addition is:

_____ + ____ = _____

Group A start

Dexter runs 3,015 m Alex runs 1,657 m less. How far does Alex run?





3,015 rounded to the nearest 1,000 is ______

1,657 rounded to the nearest 1,000 is _____

The estimated answer is:

_____=___

Dexter 3,015

Alex ? 1,657

Name	Points
Eva	3,568
Mo	3,951



I will round to the nearest 1,000 to estimate our total points.

I will round to the nearest 100 to estimate our total points.



Whose estimate is more accurate?

1		
_	٠	

Alex is working out 8,967 - 6,205

Alex rounds her numbers to the nearest thousand to estimate the answer.

a) Complete the sentences.

8,967 rounded to the ne	earest thousand is		
6,205 rounded to the ne	earest thousand is		
Alex's estimate is	-	=	

b) Now work out the actual answer using the column subtraction method.

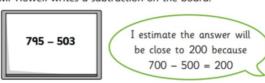
2.

Match the calculations with a good estimate.

345 + 1,234	3,000 + 6,000
2,985 + 6,325	3,500 + 1,200
3,541 + 1,179	350 + 1,200
2,135 + 6,292	2,000 + 6,000

3.

Mr Howell writes a subtraction on the board.



What mistake has Dora made?

Write a better estimate.

4.

a) Tom is estimating an addition calculation.

His estimate is 3,000 + 1,000 = 4,000

Write three possible additions Tom could be estimating.

b) Dani is estimating a subtraction calculation.

Her estimate is f600 - f100 = f500

Write three possible subtractions Dani could be estimating.

5.

Whitney and Dexter are estimating the answer to 2,706 - 1,394 Whitney's estimate is 3,000 - 1,000 = 2,000

Dexter's estimate is 2,700 - 1,400 = 1,300

Whose estimate is more accurate?

Why?

6.

A forest has 2,638 trees.

1,172 more trees are planted.



- a) Use rounding to estimate the number of trees in the forest now.
- b) Work out the actual number of trees in the forest.
- c) How accurate was your estimate?

7.

The estimated answer to a calculation is 3400

The numbers in the calculation were rounded to the nearest 100 to find an estimate.

What could the numbers be in the original calculation?

8.

Use the number cards and + or - to make three calculations with an estimated answer of 2,500

 1,295
 1,120

 4,002
 1,489

 3,812
 1,449



Game





The aim of the game is to get a number as close to 5,000 as possible.

Each child rolls a 1-6 die and chooses where to put the number on their grid.

Once they have each filled their grid, they add up their totals to see who is the closest.

	Th	Н	Т	0
	?	?	?	?
+	?	?	?	?



Estimate answers

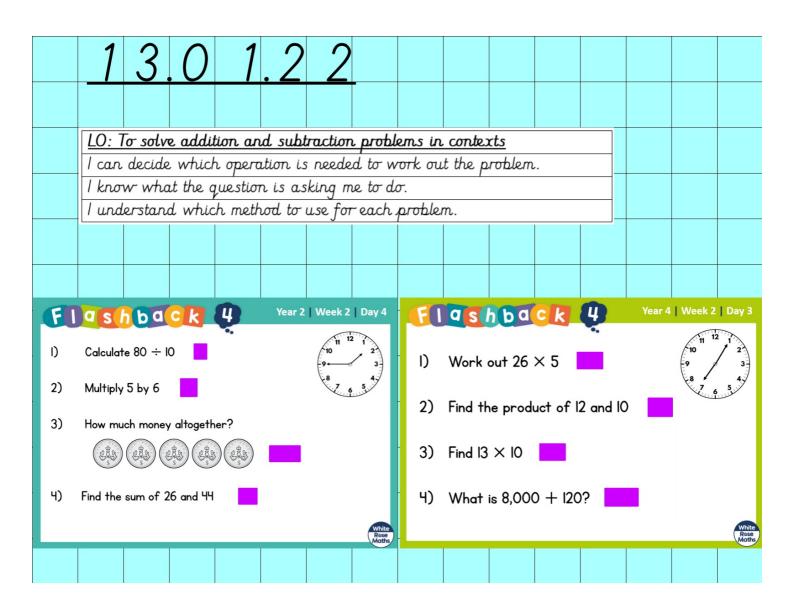
Tommy buys 3 items of shopping

£8.99 £14.99 and £4.99

I will have change from £30

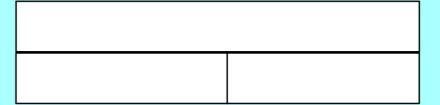






I bought Lego for 55p and another for 43p. How much did it come to?

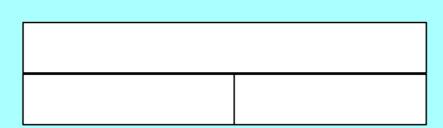
Today it will be helpful to visualise the problem with a bar model.



Now we have placed the information we know on the bar model.

What operation will we need to work out this problem?

Amir buys a can of cola which contains 270ml. Ron buys a bottle of cola which contains 600ml. How much more cola is there in the bottle than the can?





Group A start

Jacob had some string for his conker that was 5278cm long. His Dad cuts off 789cm off. How much of the string is left?

Aı	rdy	is	rea	dino	g a	boc	rk, '	whi	ch	has	
	357				,						e
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	ad?		J			J				J	

At a recent clean-up of the beach, 96 children collected 3238 pieces of rubbish. Louis collects 827 pieces, Oliver 1934 so how many has Charlie collected?

Read the question carefully. What information is needed?

BRONZE

- 1. In one month, 982 adults and 695 children stayed in a hotel. How many people stayed at the hotel altogether?
- 2. Sunil buys a can of cola which contains 330ml. Emma buys a bottle of cola which contains 500ml. How much more cola is there in the bottle than the can?
- 3. What is the sum of 469 and 934?
- 4. A car park has room for 775 cars. 189 cars are parked in the car park, how many spaces are left?

SILVER

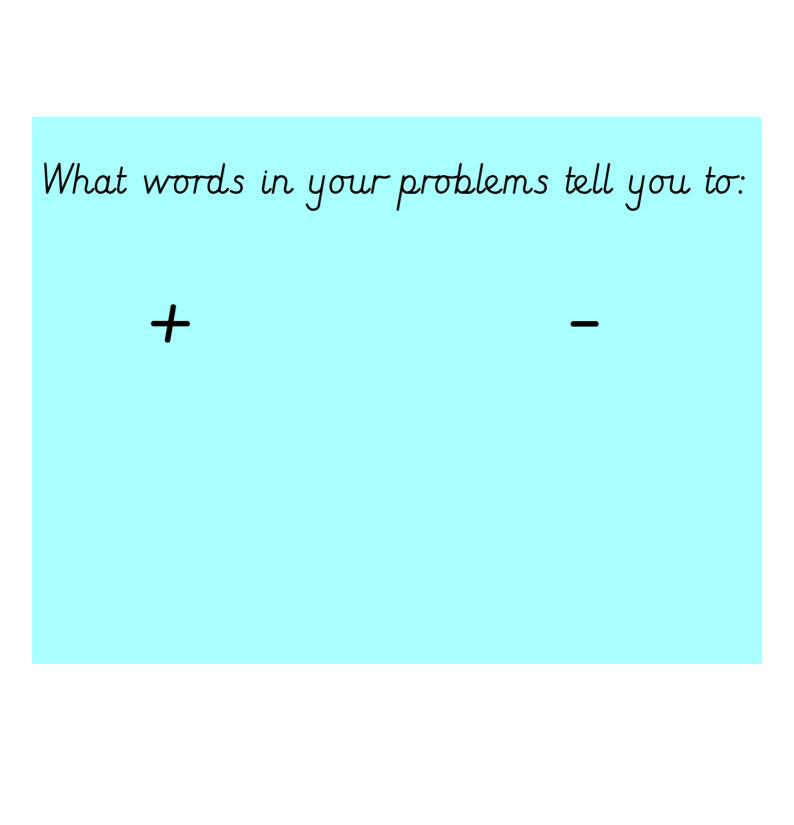
- Daniel had some string for his conker that was 4168cm long. His Dad cuts off 289cm off.
 How much of the string is left?
- 2. Cilla wants to buy a new car for £6451. She has £4883 in her savings account. How much more money does she need to save?
- Jack went on holiday. His flight cost £120, the hotel £295 and spending money £427. How much did Jack spend on his holiday?
- 4. Daniel planned to cycle 3642 miles in one week. On the first day he cycled 2748 miles. How much further did he have to go?

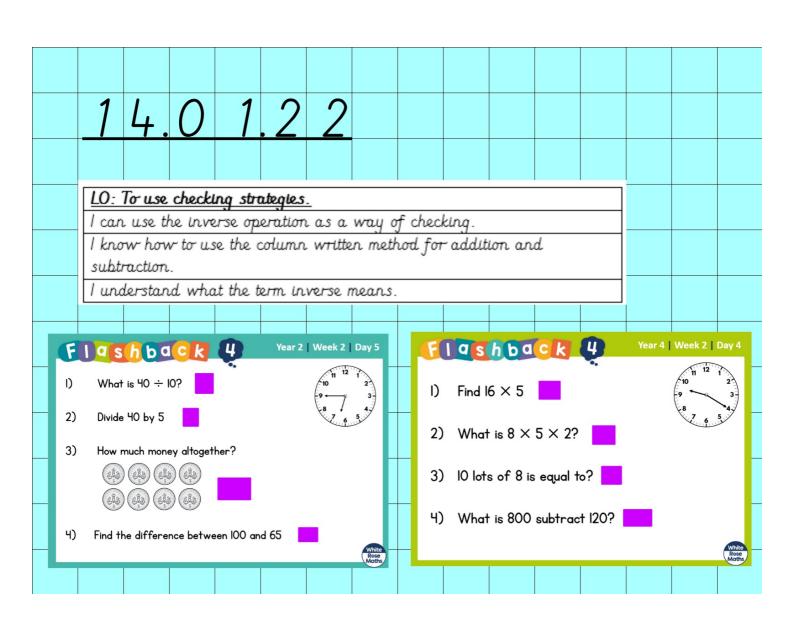
GOLD

- 1. Andy is reading a book, which has 9645 pages. He read 1855 pages in the morning and 3625 in the afternoon. How many more pages has he left to read?
- 2. A man bought a pack of 2150 envelopes. After using 857 and giving away 285, how many did he have left?
- 3. A tracksuit top costs £12.75 and matching tracksuit bottoms cost £9.50, how much does the tracksuit cost altogether?

Platinum

- 1. In a week John saves £362, on Monday he has 2152p on Wednesday £175. How much does he save the rest of the week?
- 2. At a recent clean-up of the beach, 103 children collected 5295 pieces of rubbish. Louis collects 934 pieces, Oliver 2626 so how many has Charlie collected?
- 3. Maggie can stay underwater for 415 seconds, Shay for 724 seconds and Jacob for 156 seconds. How long is that in total?
 Can you work out how long this would be in minute?





If you were adding or subtracting two numbers, how could you check that your answer was correct?

What does mean?

Which additions can be used to check 364 - 202 = 566?

364 + 202

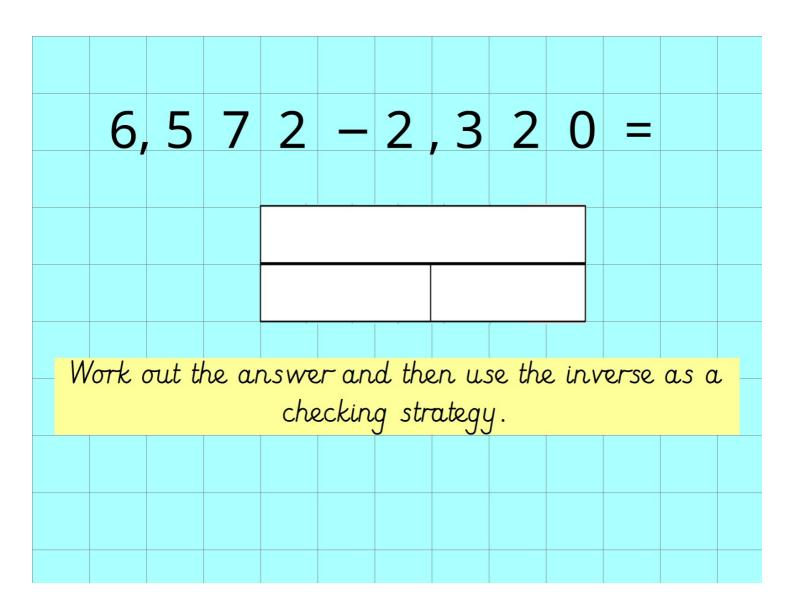
162 + 202

364 + 162

202 + 364

	Н	Τ	0							
	3	7	1							
+	4	6	5							
	8	3	6							
					Group	Ar	oll die	2. Ma	ke 2	3-
					<u>digit</u>	numb	ers t	o ada	1	
									<u>verse</u>	
					<u>as a</u>	<u>cneck</u>	king s	<u>trate</u>	gy.	

62	3 + 1	,240	= 1,8	363									
How	/ WOI	uld I	che	ck th	at	th	is ca	lcul	atio	on	is c	orre	ct?



<u>Bronze</u>

Write all 4 number sentences for each

Answer these questions and as a checking strategy. Dra for each questi

<u>Silver</u>

True of false?