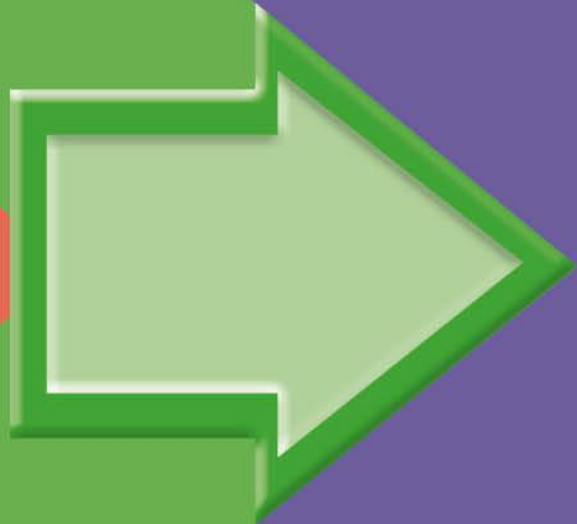


ADD TWO 4-DIGIT NUMBERS (ONE EXCHANGE)



GET READY



1) $4 + \underline{\quad} = 10$

2) $\underline{\quad} + 400 = 1,000$

3) $10 \text{ hundreds} = \underline{\quad} \text{ thousand}$

1) $4 + \underline{6} = 10$

2) $\underline{600} + 400 = 1,000$

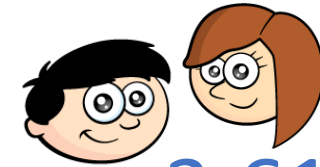
3) $10 \text{ hundreds} = \underline{1} \text{ thousand}$

LET'S LEARN



Dexter scores 1,351 points in a game.

Rosie scores 2,263 points.



3,614

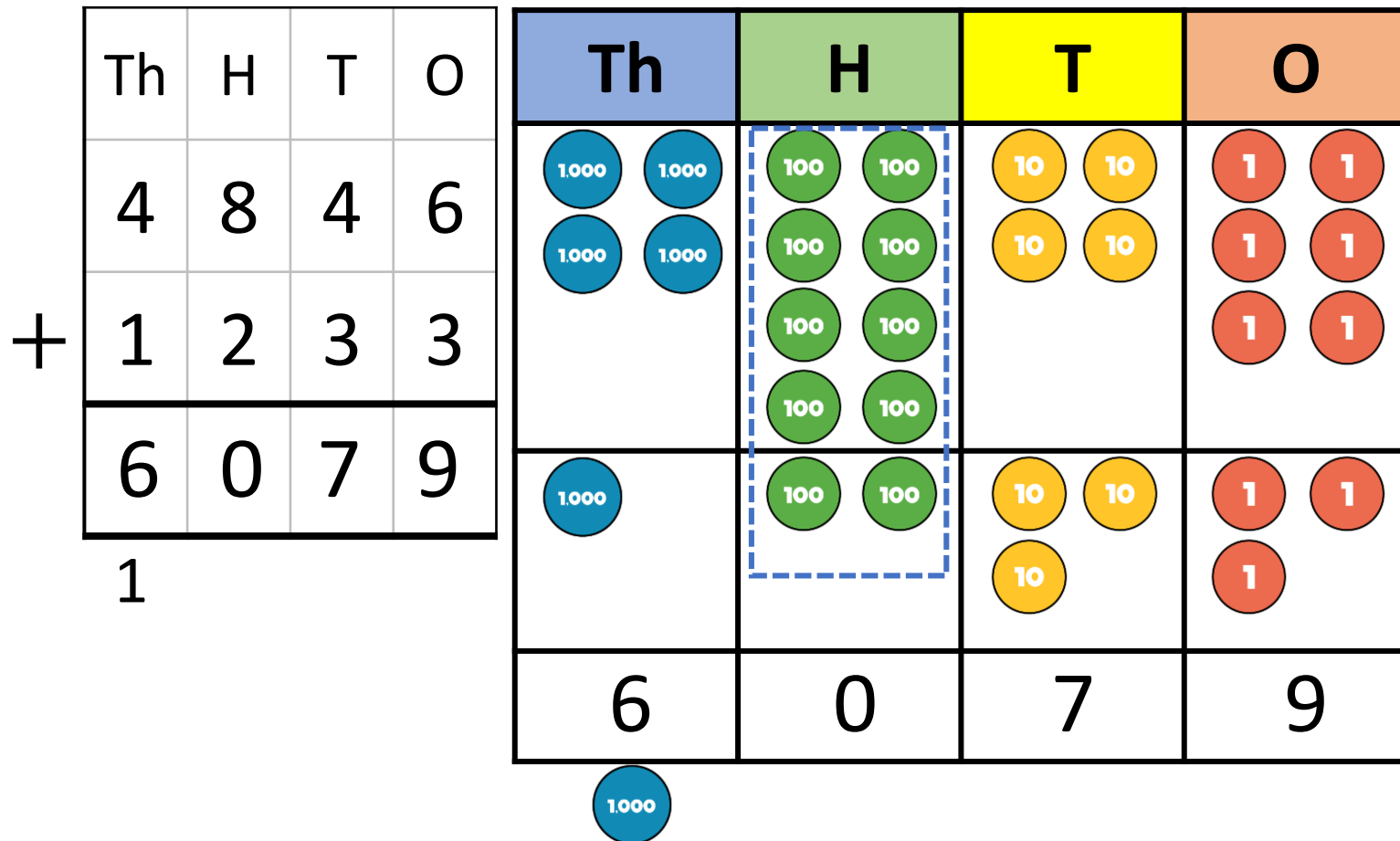
How many points do they score altogether?

	Th	H	T	O
	2	2	6	3
+	1	3	5	1
	3	6	1	4
	1			

Th	H	T	O
1000 1000	100 100	10 10 10 10 10 10	1 1 1
1000	100 100 100	10 10 10 10 10	1
3	6	1	4

100

Miss Rose has £ 4,846 in one bank account and £ 1,233 more in another account. How much money is in her second account? £ 6,079



1) $2,022 + 7,085$

2) $813 + 2,471$

3) $8,610 + 1,283$

4) $3,657 + 5,227$

Have a think



No exchange	Exchange 100s for 1,000s	Exchange 10s for 100s	Exchange 1s for 10s
3)	2)	1)	4)

A pilot flies 3,641 km on Wednesday. On Thursday she flies 1,275 km further than she flew on Wednesday.

How far does she fly on both days in total?



8,557 km

Wed	3,641	}	?
Thurs	4,916		

	Th	H	T	O
	4	9	1	6
+	3	6	4	1
	8	9	5	7
	1	1		

YOUR TURN

Have a go at questions
1 - 5 on the worksheet



	Th	H	T	O
	1	4	3	6
+	1	2	1	7
	2	6	5	3

1

$$\square + 7 = 3$$

$$6 + 7 = 13$$

Th	H	T	O
1000	100 100 100 100	10 10 10	1 1 1 1 1 1
1000	100 100	10	1 1 1 1 1 1 1
1000 1000	100 100 100 100 100 100	10 10 10 10 10	1 1 1

10

	Th	H	T	O
	4	9	2	7
+	2	1	6	0
	7	0	8	7

1

YOUR TURN

Have a go at the rest of
the worksheet



ADD 4 DIGIT
NUMBERS WITH
MORE THAN ONE
EXCHANGE



GET READY



- 1) How many exchanges will there be in this addition?

$$748 + 272$$

- 2) 10 tens = ____ hundred

- 3) 16 tens = ____ hundred and ____ tens

- 1) How many exchanges will there be in this addition? **There will be two exchanges**

$$\begin{array}{r} 748 \\ + 272 \\ \hline \end{array}$$

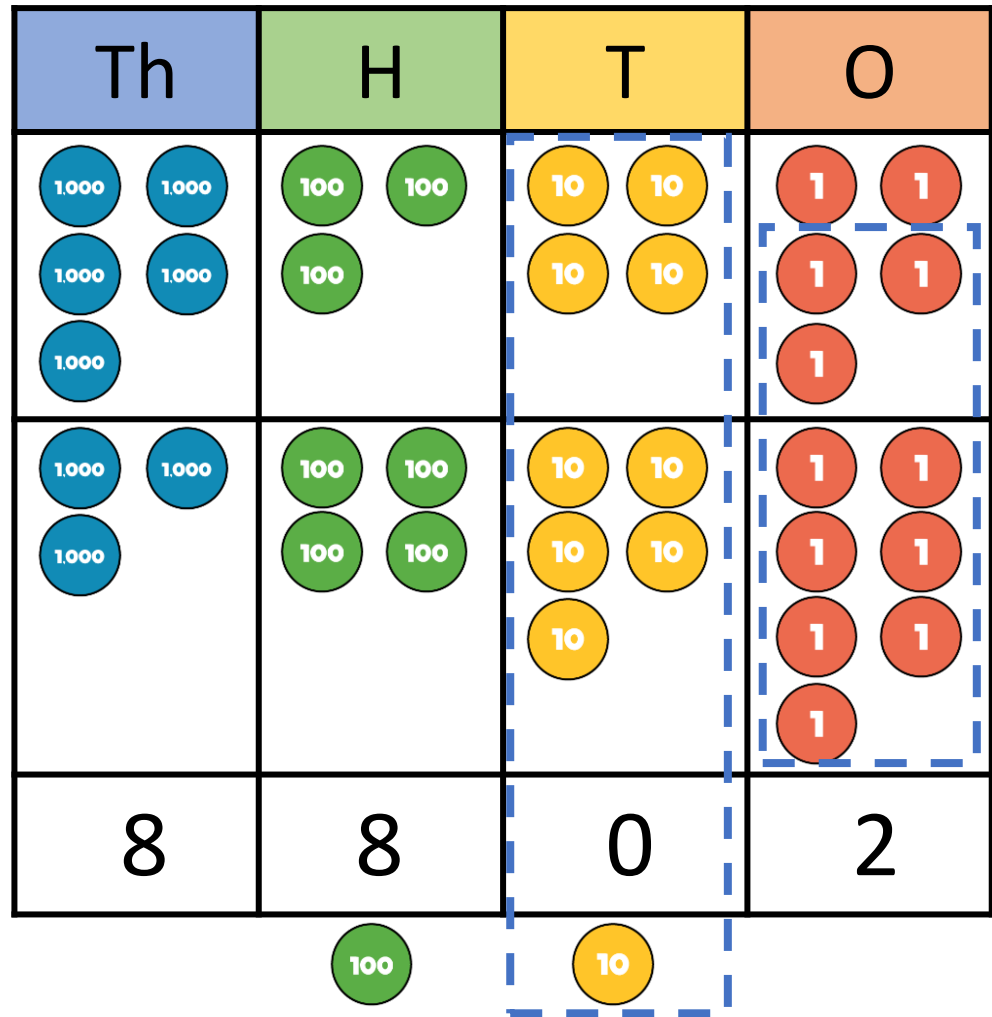
- 2) 10 tens = 1 hundred

- 3) 16 tens = 1 hundred and 6 tens






























LET'S LEARN



	Th	H	T	O
	5	3	4	5
+	3	4	5	7
	8	8	0	2
		1	1	



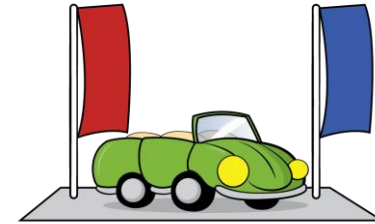
Th	H	T	O
2	7	3	5
	3	1	6
3	0	5	1
1		1	

Th	H	T	O
 	      	  	    
	  		     
3	0	5	1
			

Two cars are for sale.

The first car costs £3,655

The second car costs £1,755 more.



1) How much does the second car cost? **£5,410**

2) Mr Jones has £9,000

He wants to buy both cars.

Does he have enough money?

No, he does not have enough money.

	Th	H	T	O
	5	4	1	0
+	3	6	5	5
	9	0	6	5
	<u>1</u>	1	1	

YOUR TURN

Have a go at questions
1 - 5 on the worksheet



	Th	H	T	O
	6	8	7	9
+	2	3	1	5
<hr/>				
	9	1	9	4
	1		1	

$$9 + 5 = 14$$

8 hundreds + 3 hundreds = 11 hundreds

	Th	H	T	O
	3	3	3	8
+		7	2	6
	4	0	6	4
	1		1	

$$\square + \square = 14$$

3 hundreds + 7 hundreds = 10 hundreds

YOUR TURN

Have a go at the rest of
the worksheet



SUBTRACT TWO 4-DIGIT NUMBERS (ONE EXCHANGE)



GET READY



1) $7,058 - 3,042 =$

2) $1,635 - 601 =$

3) 1 thousand = _____ hundreds

$$1) 7,058 - 3,042 = 4,016$$

$$2) 1,635 - 601 = 1,034$$

$$3) 1 \text{ thousand} = \underline{10} \text{ hundreds}$$

LET'S LEARN



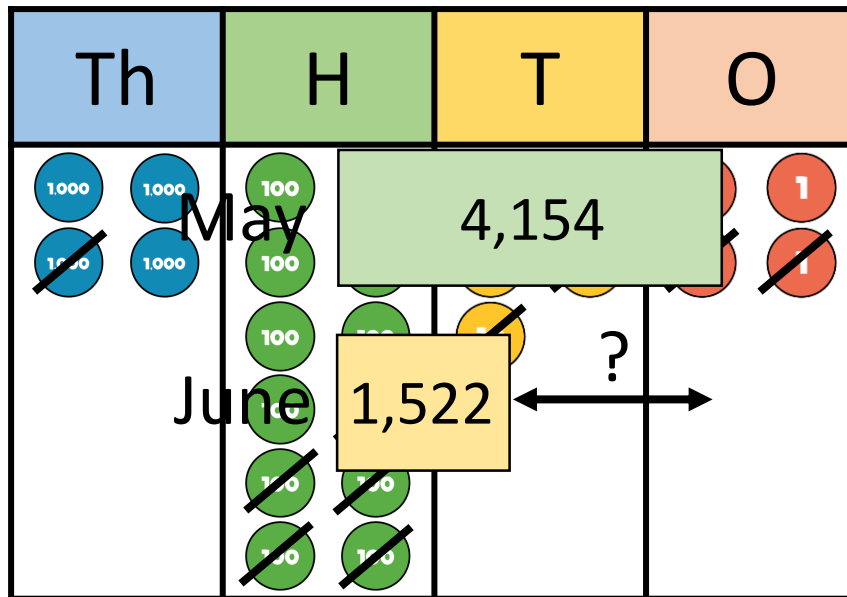


A cyclist rides 4,154 km in May.

In June she cycles 1,522 km.

How many more km does she cycle during May?

2,632 km



—

Th	H	T	O
3 4	1 1	5	4
1	5	2	2
2	6	3	2

1 hundred — 5 hundreds =
 11 hundreds — 5 hundreds =
 1 thousand = 10 hundreds

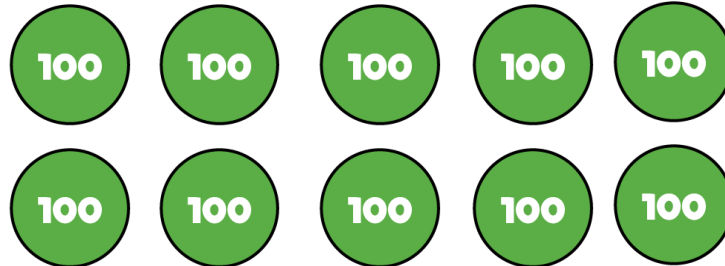
1 ten = 10 ones

Have a think

















1 hundred = 10 tens

1 thousand = 10 hundreds



$$8,231 - 7,620 = 611$$

Th	H	T	O
   	     	  	

Th	H	T	O
7 8	12	3	1
7	6	2	0
0	6	1	1

YOUR TURN

Have a go at questions
1 - 5 on the worksheet



$$2,534 - 1,702 = 832$$

Have a think

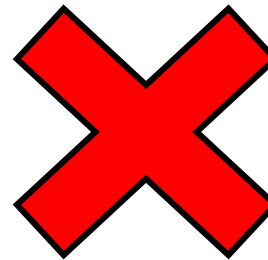


—

Th	H	T	O
1 2	1 5	3	4
1	7	0	2
0	8	3	2

15 hundreds – 7 hundreds

7 hundreds – 5 hundreds





Have a think



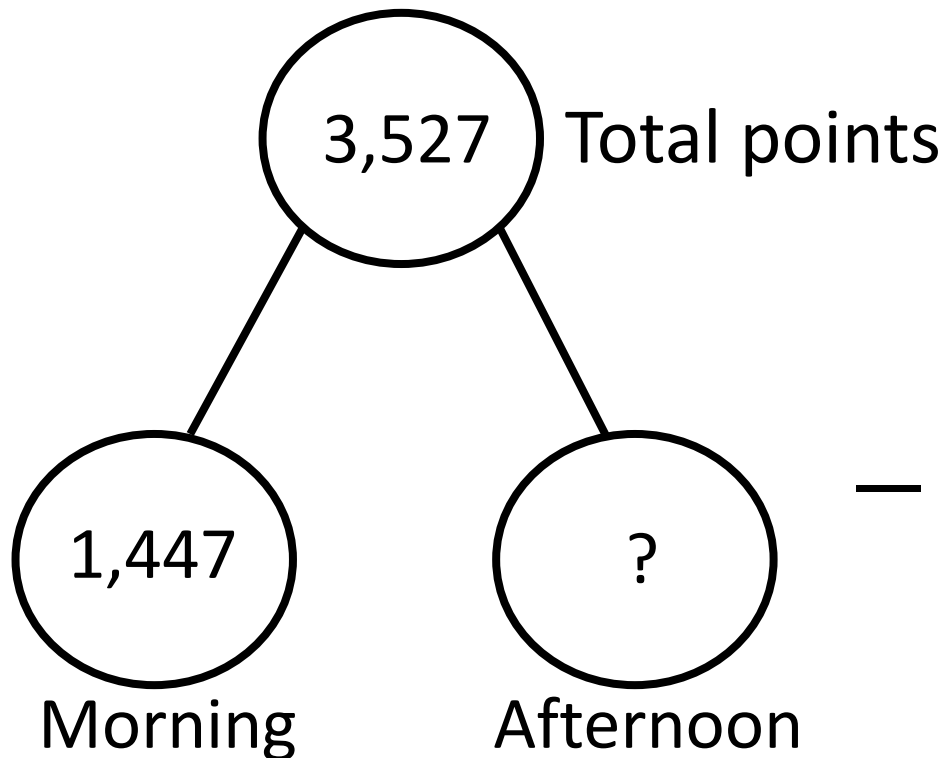
The answer to $1,364 - 630$ will have 1 thousand because there is nothing to subtract from 1 thousand

Explain why Dexter is not correct.

Th	H	T	O
0 1	3	6	4
	6	3	0
	7	3	4

During a dance competition, Ron scores a total of 3,527 points. He scores 1,447 points in the morning. How many points does he score in the afternoon?

2,080 points



—

Th	H	T	O
3	4 ⁵	1 ²	7
1	4	4	7
2	0	8	0

YOUR TURN

Have a go at questions
6 - 9 on the worksheet



SUBTRACT TWO
4-DIGIT NUMBERS –
MORE THAN ONE
EXCHANGE

GET READY



1) $7,614 - 6,344 =$

2) 1 thousand = _____ hundreds

3) 1 hundred = _____ tens

4) 1 thousand = _____ tens

1) $7,614 - 6,344 = 1,270$

2) 1 thousand = 10 hundreds

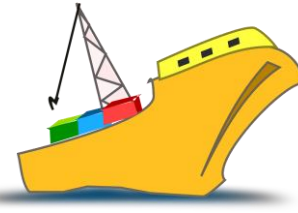
3) 1 hundred = 10 tens

4) 1 thousand = 100 tens

LET'S LEARN



A cargo ship's journey is 4,065 km.
It has sailed 2,128 km.



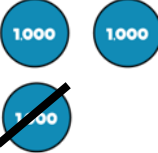


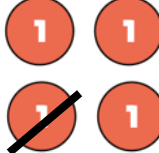
How much further does it need to sail?

1,937 km

Th	H	T	O
1000 1000	100 100	10 10	1 1
1000 1000	100 100	10 10	1 1
2,128 km	100 100	10 10 ?	1 1
	100 100		1 1
Sailed	100 100	Still to sail	1 1
			1 1
			1 1

Th	H	T	O
3 4	10	5 6	15
2	1	2	8
1	9	3	7

Th	H	T	O
3	4 ³	0 ⁹	1 ₂
1	3	0	9
2	0	9	3

Th	H	T	O
			

YOUR TURN

Have a go at the questions
1 - 3 on the worksheet



5,114 people attend the theatre. 2,309 are adults and 1,457 are girls. How many boys attend?

+

Th	H	T	O
2	3	0	9
1	4	5	7
3	7	6	6

5,114

Have a think

Th	H	T	O
4 5	10 1	10 1	14
3	7	6	6
1	3	4	8

1

2,309

1,457

?

-

Th	H	T	O
4 5	10 1	10 1	14
2	3	0	9
2	8	0	5

2

Th	H	T	O
2	3	0	9
1	4	5	7
1	3	4	8

1

3

4

8

11

Th	H	T	O
2	10	14	1
	6	8	7
3	4	6	7

14 ones – 7 ones = 7 ones

14 tens – **8** tens = 6 tens

10 hundreds – 6 hundreds = 4 hundreds

YOUR TURN

Have a go at the questions
4 to 7 on the worksheet



ADD WHOLE
NUMBERS WITH
MORE THAN
4 DIGITS



GET READY



1) Without calculating, in what column will the exchange happen?

$$8,322 + 1,294$$

2) Ten 1,000s equals _____ ten thousand.

3) _____ + 4,135 = 6,352

1) Without calculating, in what column will the exchange happen?

$$8,322 + 1,294 \quad \text{Tens column}$$

2) Ten 1,000s equals 1 ten thousand.

$$3) \quad \underline{2,217} + 4,135 = 6,352$$

LET'S LEARN



TTh	Th	H	T	O
	7	7	7	5
	4	4	2	0
1	2	1	9	5

1 1

TTh	Th	H	T	O
	<div>1000</div> <div>1000</div> <div>1000</div> <div>1000</div>	<div>100</div> <div>100</div> <div>100</div> <div>100</div>	<div>10</div> <div>10</div> <div>10</div> <div>10</div>	<div>1</div> <div>1</div> <div>1</div>
	<div>1000</div> <div>1000</div>	<div>100</div> <div>100</div>	<div>10</div> <div>10</div>	
1	2	1	9	5

10,000

1,000

12,195

Have a think



	TTh	Th	H	T	O
		7	2	4	0
+		2	8	1	9
	1	0	0	5	9
	1	1			

	TTh	Th	H	T	O
	2	2	0	5	6
+	3	1	7		
	2	2	3	7	3
				1	

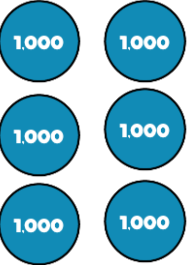
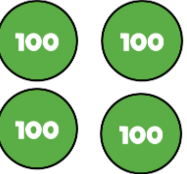

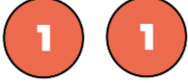
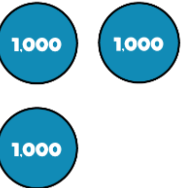

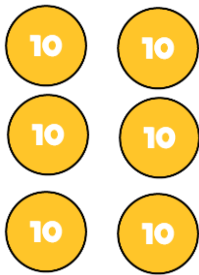
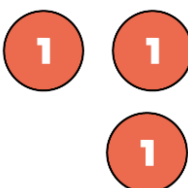
YOUR TURN

Have a go at questions
1 and 2 on the worksheet



$$6,412 + 3,563 = 9,975$$

Th	H	T	O
6	4	1	2
3	5	6	3
9	9	7	5

Th	H	T	O
			
			
9	9	7	5

$$582 \text{ cm} + 63,070 \text{ cm} + 76 \text{ m} =$$

$$582 \text{ cm} + 63,070 \text{ cm} + 7,600 \text{ cm} = 71,252 \text{ cm}$$

	TTh	Th	H	T	O
	6	3	0	7	0
		7	6	0	0
+			5	8	2
	7	1	2	5	2
	1	1	1		

	TTh	Th	H	T	O
	3	7	1	0	1
+	6	2	0	1	3
	9	9	1	1	4

	TTh	Th	H	T	O
	2	7	9	0	7
+	6	2	7	1	5
	8	0	6	2	2
	1	1		1	

hundreds + 7 hundreds = 6 hundreds

hundreds + 7 hundreds = 16 hundreds

YOUR TURN

Have a go at the rest of
the questions on the
worksheet



SUBTRACT
WHOLE NUMBERS
WITH MORE
THAN 4 DIGITS



GET READY



1) _____ tens = 1 thousand

2) $4,102 - 2,510 =$

3) $738 - 461 = 337$

In which place value column in the answer is there an error?

4) $3,217 - 464 =$

1) 100 tens = 1 thousand

2) $4,102 - 2,510 = 1,592$

3) $738 - 461 = 337$

In which place value column in the answer
is there an error?

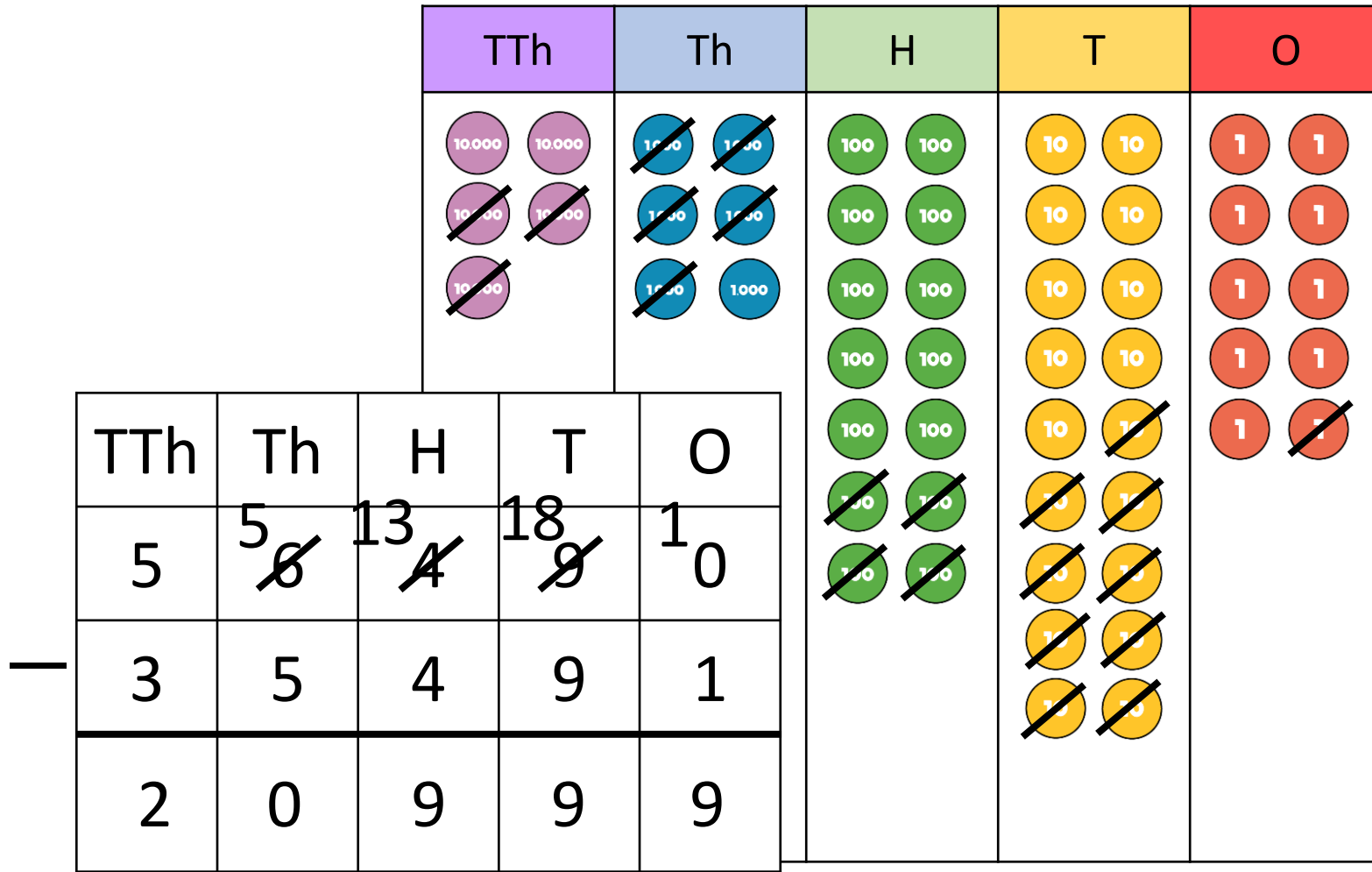
Tens column

4) $3,217 - 464 = 2,753$

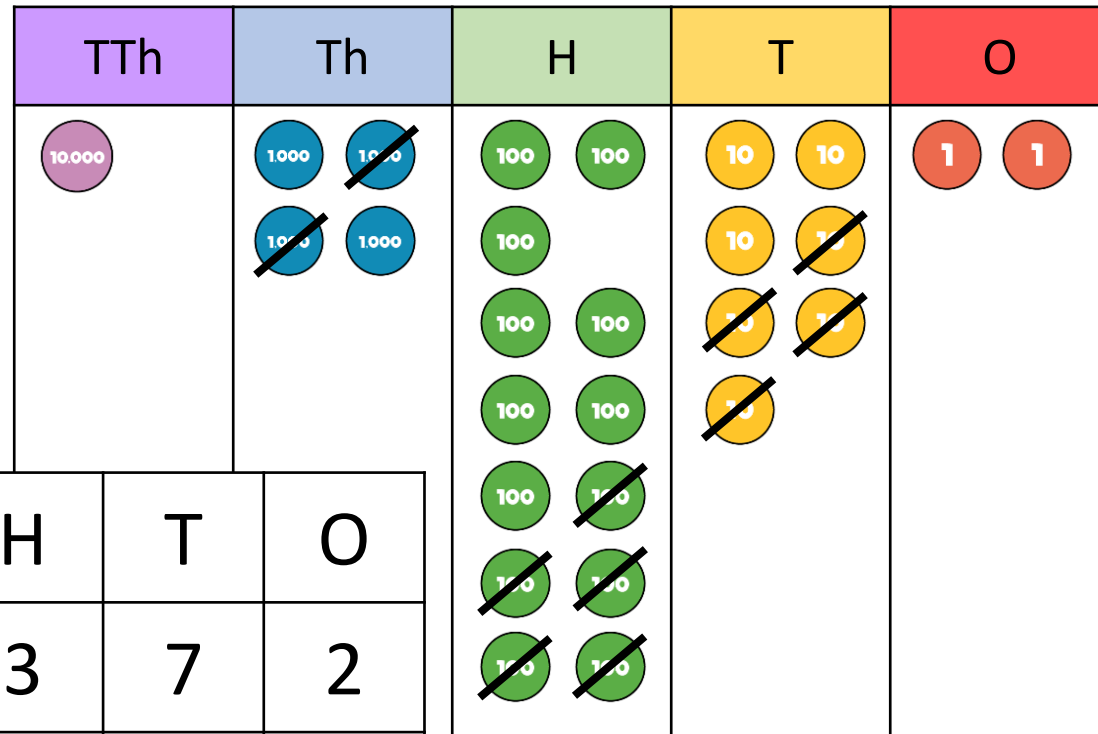
LET'S LEARN



$$56,490 - 35,491 = 20,999$$



$$14,372 - 2,540 = 11,832$$



TTh	Th	H	T	O
1	3 4	13	7	2
	2	5	4	0
1	1	8	3	2

Mr Jones has £22,200

Have a think



He buys a new car for £15,515 and spends
£1,008 on a holiday.

How much money does he have left? £5,677

TTh	Th	H	T	O
¹ 2	¹¹ 2	¹¹ 2	⁹ 10	¹ 0
1	5	5	1	5
0	6	6	8	5

Th	H	T	O
6	6	⁷ 8	¹ 5
1	0	0	8
5	6	7	7

The distance around the middle of the moon is 10,921 km.

The distance around the middle of the earth is 40,075 km.

How much further is it around the earth than the moon? **29,154 km**



Moon 10,921

Earth 40,075

—

TTh	Th	H	T	O
3	9	10	7	5
4	10			
1	0	9	2	1
2	9	1	5	4

Miss Rose has £76,350

Have a think

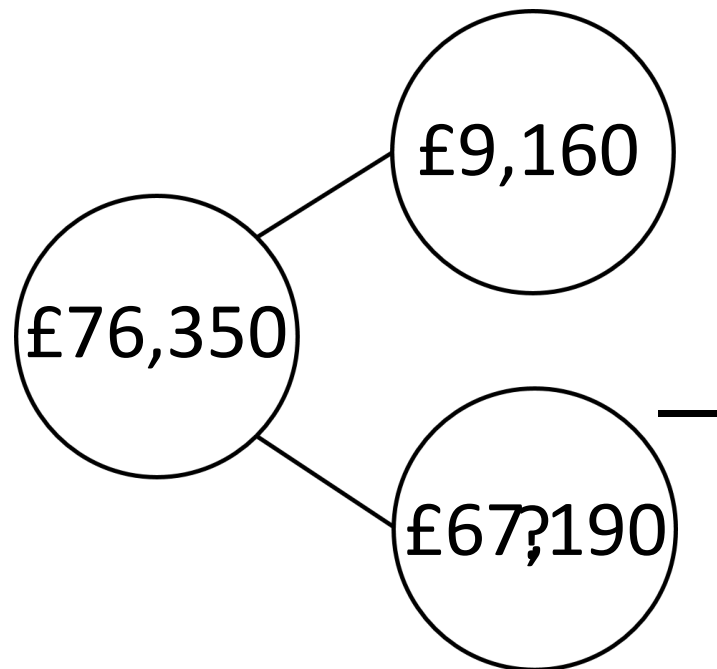


£9,160 of her money is in High Street bank
and the rest is in National Bank.

How much is in National Bank?



£67,190



TTh	Th	H	T	O
⁶ 7	16	² 3	15	0
	9	1	6	0
6	7	1	9	0

YOUR TURN

Have a go at the questions
on the worksheet



ROUND TO ESTIMATE AND APPROXIMATE



GET READY



1) $7,116 - 3,655 =$

2) $51,540 + 5,154 =$

3) Round 84,564 to the nearest 1,000

4) Round 84,564 to the nearest 10,000

1) $7,116 - 3,655 = 3,461$

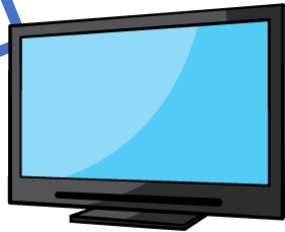
2) $51,540 + 5,154 = 56,694$

3) Round 84,564 to the nearest 1,000 $85,000$

4) Round 84,564 to the nearest 10,000 $80,000$

LET'S LEARN





How?! I haven't written the numbers yet!

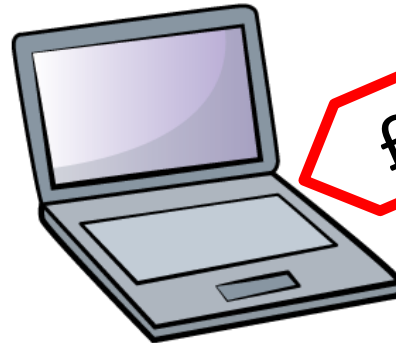
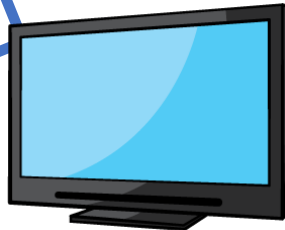
I have £3,800 in my bank. Can I afford to buy the TV and laptop?

STOP! I already know he can afford it.

95

--	--	--	--	--	--	--

£2,138.95



£1,219.40



I rounded £2,138.95 to £2,100

I rounded £1,219.40 to £1,200



£2,100 plus £1,200 is £3,300
so Ron has enough money

An estimate – a sensible but
not exact answer.

$$7,116 - 3,655 =$$

7,116 rounded to the nearest 1,000 is 7,000

3,655 rounded to the nearest 1,000 is 4,000

$$7,000 - 4,000 = 3,000$$

7,116 rounded to the nearest 100 is 7,100

3,655 rounded to the nearest 100 is 3,700

$$7,100 - 3,700 = 3,400$$

Have a think



Which is the more accurate estimate?

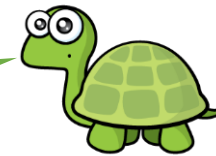
	Shop A	Shop B	Shop C
Morning	£4,000	£6,231	£2,002
Afternoon	£11,613	£9,199	£14,508

Estimate which shop made the most money.

Shop C

Shop A: $4,000 + 12,000 = \text{£} 16,000$
That's already rounded to the nearest 1,000

Shop B: $6,000 + 9,000 = \text{£} 15,000$
That's already rounded to the nearest 1,000



Shop C: $2,000 + 15,000 = \text{£} 17,000$

Have a think



Did shop B make more or less than £ 15,000?

More

YOUR TURN

Have a go at questions
1 - 5 on the worksheet



True or false?

$$\begin{array}{r} 6 \\ + 542 \\ \hline \end{array} > \begin{array}{r} 3 \\ + 524 \\ \hline \end{array} \begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

True

Have a think

$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array} \begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

What's stayed the same?

What's changed?

constant difference

$$\begin{array}{r} 25,501 \\ - 1,000 \\ \hline \end{array} = \begin{array}{r} 25,500 \\ - 999 \\ \hline \end{array}$$

True

1 less

Have a think

1 less

What's stayed the same?

What's changed?

YOUR TURN

Have a go at the rest of
the worksheet



INVERSE OPERATIONS (ADDITION AND SUBTRACTION)



GET READY



- 1) Estimate the answer to:
 $6,212 - 255 =$

- 2) Round 176,388 to the nearest 10,000

- 3) Round 450 to the nearest 1,000

- 4) Calculate $5,993 + 4,011 =$

1) Estimate the answer to:

$$6,212 - 255 =$$

$$6,200 - 300 = 5,900$$

2) Round 176,388 to the nearest 10,000 $180,000$

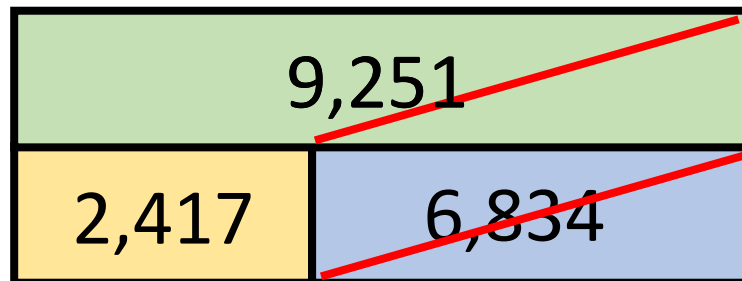
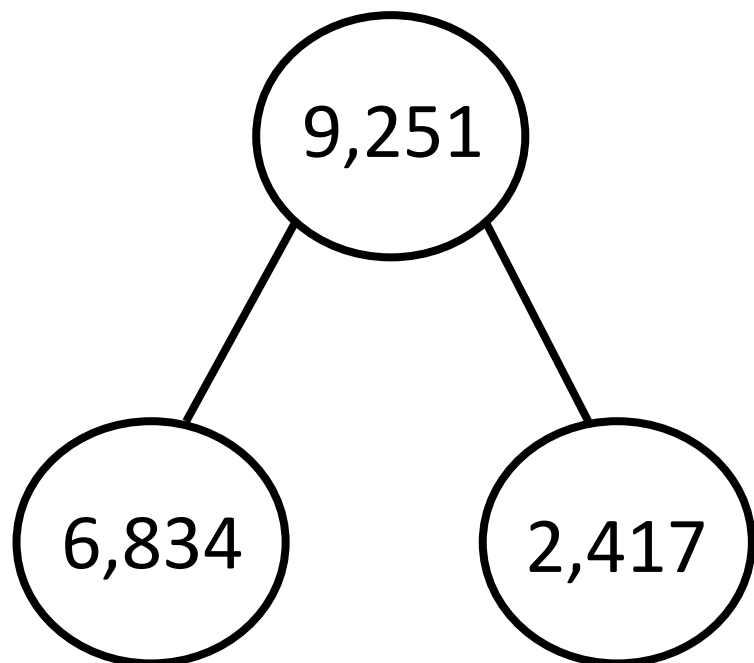
3) Round 450 to the nearest 1,000 0

4) Calculate $5,993 + 4,011 = 10,004$

LET'S LEARN



$$2,417 + 6,834 = 9,251$$



$$6,834 + 2,417 = 9,251$$

$$9,251 - 6,834 = 2,417$$

$$\underline{9,251} - \underline{2,417} = \underline{6,834}$$

Have a think



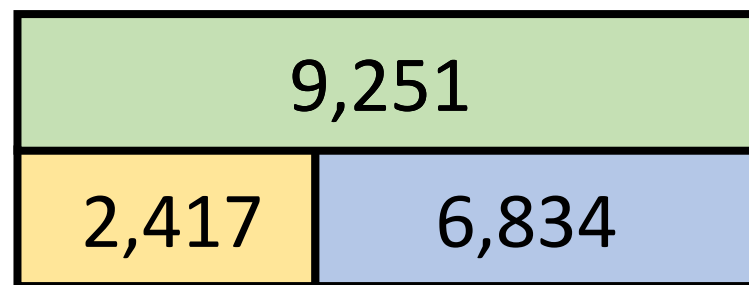
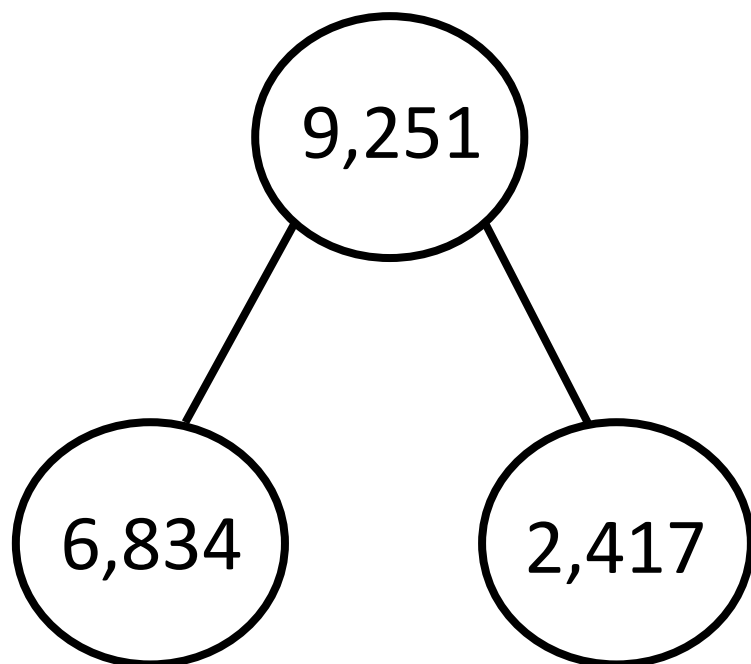
Fact family

$$2,417 + 6,834 = 9,251$$

$$6,834 + 2,417 = 9,251$$

$$9,251 - 2,417 = 6,834$$

$$9,251 - 6,834 = 2,417$$



Addition is the inverse of subtraction

Subtraction is the inverse of addition

$$92,733 - 35,904 = 56,829$$

Have a think

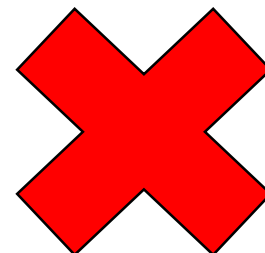


$$\underline{92,733} - \underline{56,829} = \underline{35,904}$$

$$\underline{35,904} + \underline{56,829} = \underline{92,733}$$

$$\underline{56,829} + \underline{35,904} = \underline{92,733}$$

$$\underline{92,733} + \underline{35,904} = \underline{56,829}$$



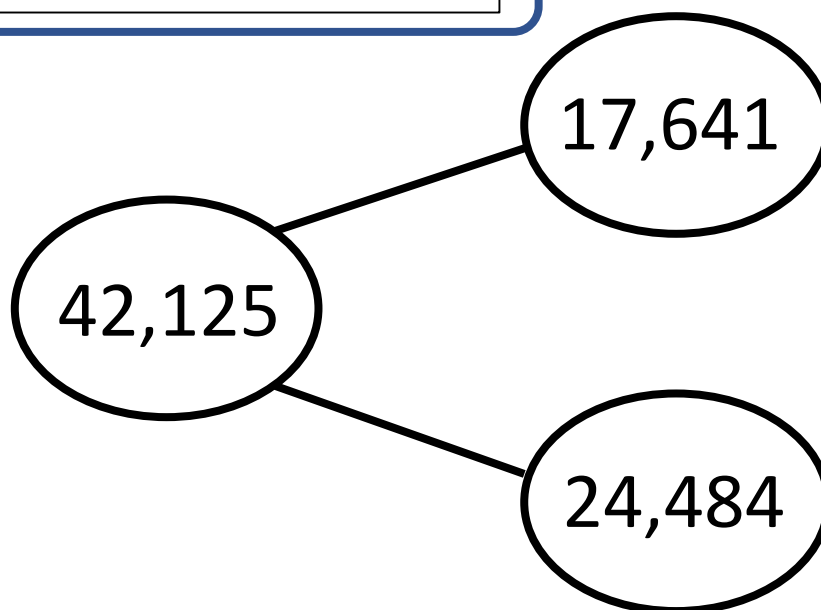
$$42,125 - 17,641 = 24,484$$

Which addition is the inverse of this subtraction?

$$42,125 + 17,641$$

$$24,484 + 42,125$$

$$17,641 + 24,484$$

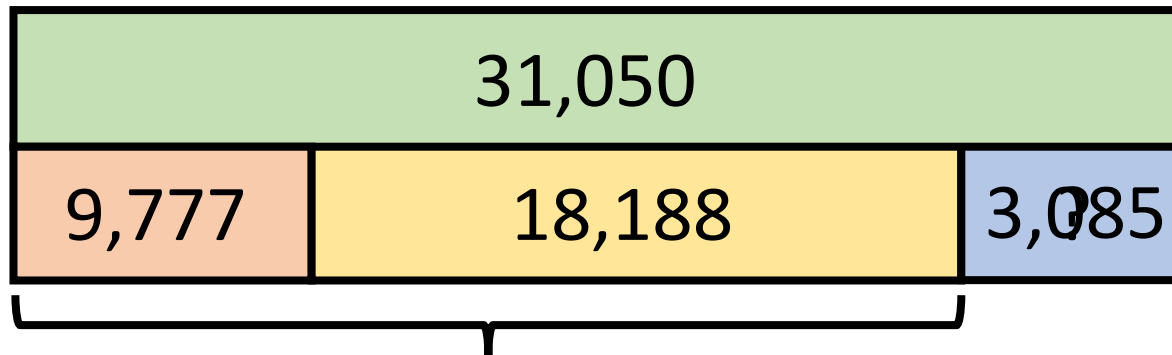


YOUR TURN

Have a go at the questions
1 - 5 on the worksheet



Calculate the missing part



27,965

Have a think



	TTh	Th	H	T	O
	1	8	1	8	8
+		9	7	7	7
	2	7	9	6	5
	1		1	1	

	TTh	Th	H	T	O
	2	10	9	14	1
	3	1	0	5	0
-	2	7	9	6	5
	0	3	0	8	5

Use an inverse operation to check this addition.

Th	H	T	O
5	4	8	5
4	4	1	0
9	8	9	5

+

—

Th	H	T	O
9	8	9	5
5	4	8	5

Is there another
subtraction we could
use?

—

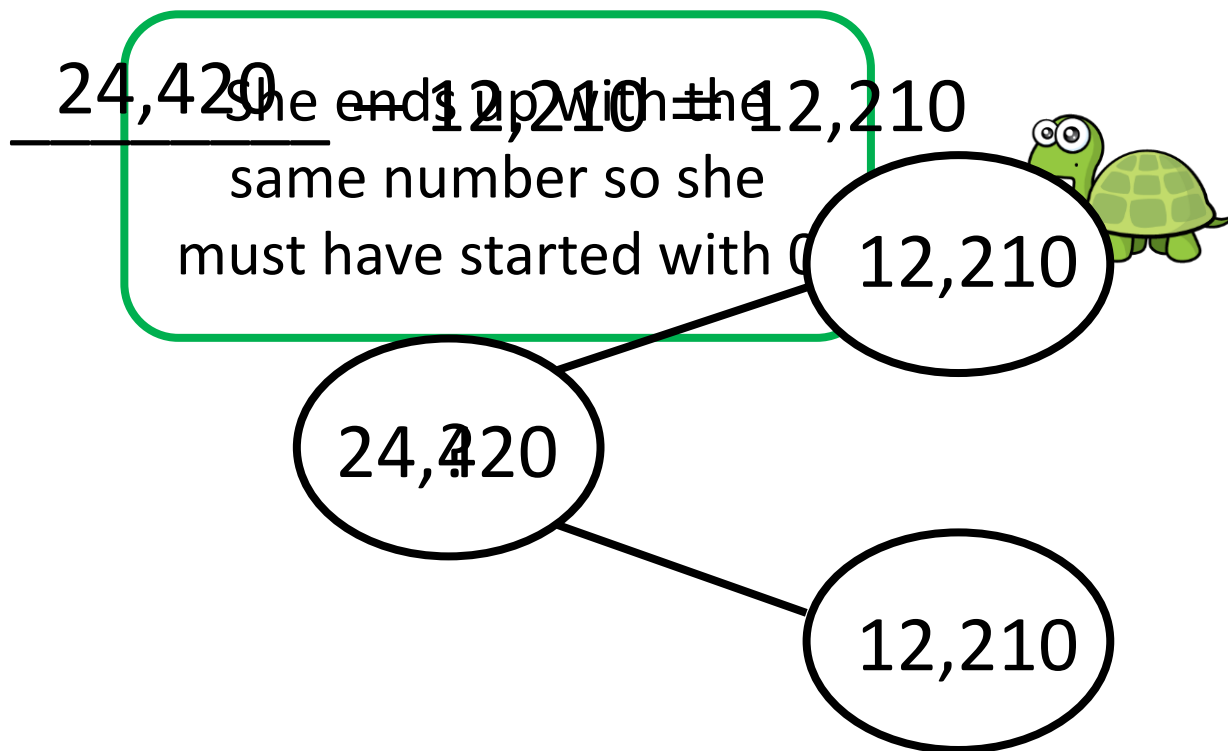
Th	H	T	O
9	8	9	5
4	4	1	0





When I subtract 12,210 from
my number I get 12,210

What was Dora's starting number? 24,420



YOUR TURN

Have a go at the questions
6 - 8 on the worksheet



MULTI-STEP ADDITION AND SUBTRACTION PROBLEMS



GET READY



- 1) *“Teddy scores 74 points. Dora scores 103 points.*

How many more points does Dora score than Teddy?”

What operation is needed to answer this question?

- 2) Complete the fact family:

$$\begin{array}{rclclcl}
 454 + 352 & = & 806 & \quad & \underline{\hspace{1cm}} & - & \underline{\hspace{1cm}} & = & \underline{\hspace{1cm}} \\
 \underline{\hspace{1cm}} & + & \underline{\hspace{1cm}} & = & \underline{\hspace{1cm}} & \quad & \underline{\hspace{1cm}} & - & \underline{\hspace{1cm}} & = & \underline{\hspace{1cm}}
 \end{array}$$

- 3) Round 95,032 to the nearest 10,000

- 1) *“Teddy scores 74 points. Dora scores 103 points.*

How many more points does Dora score than Teddy?”

What operation is needed to answer this question?

Subtraction

- 2) Complete the fact family:

$$454 + 352 = 806 \quad \underline{806} - \underline{454} = \underline{352}$$

$$\underline{352} + \underline{454} = \underline{806} \quad \underline{806} - \underline{352} = \underline{454}$$

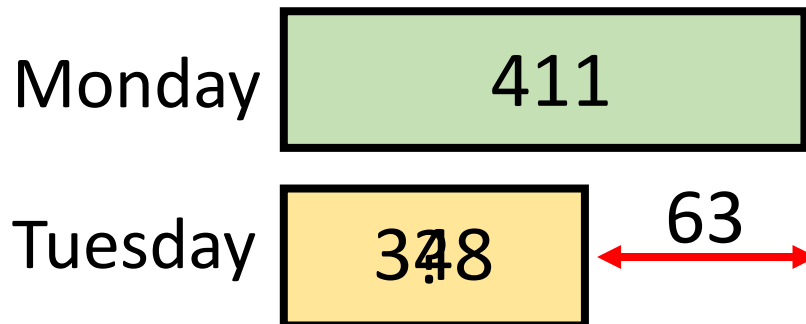
- 3) Round 95,032 to the nearest 10,000 100,000

LET'S LEARN



On Monday, Richard scores 411 points.
On Tuesday he scores 63 points fewer than on Monday.

How many points does he score on Tuesday? **348**



	H	T	O
	3	10	1
	4	1	1
—		6	3
	3	4	8

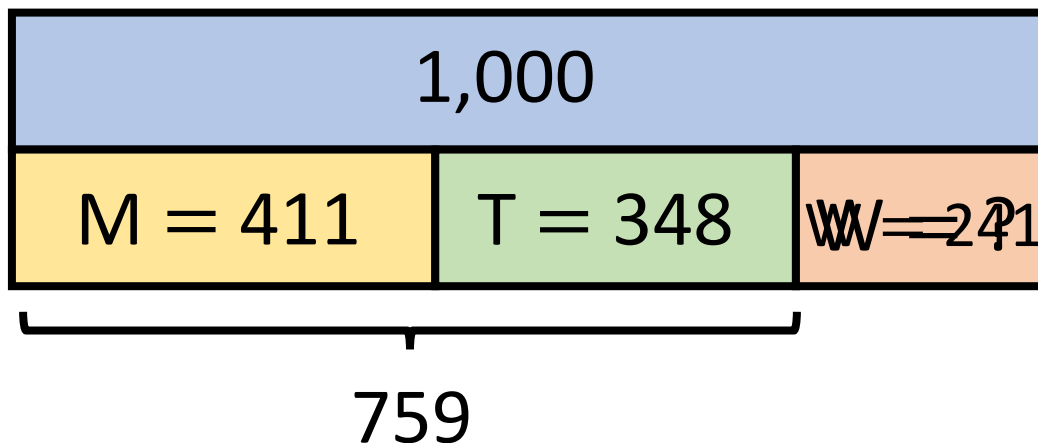
On Monday, Richard scores 411 points.

On Tuesday he scores 63 points fewer than on Monday.

How many points does he score on Tuesday? **348**

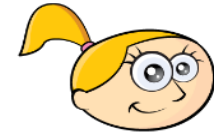
Richard needs to score 1,000 points by the end of Wednesday.

How many points does he need to score on Wednesday? **241**



H	T	O
9	9	9
7	5	8
2	4	1

Eva and Mo each have some money.



Mo has £900

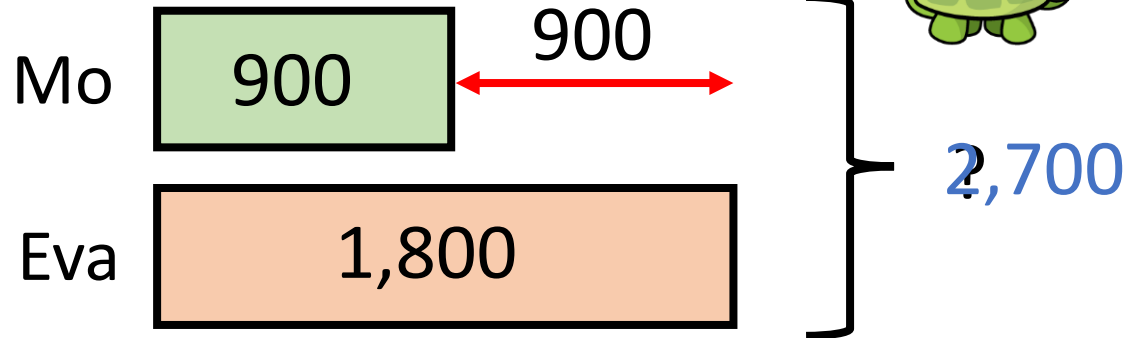
The difference between the two amounts is £900

What is the sum of their money altogether?

£2,700

Eva has no money!

Have a think



$$900 + 1,800 = 2,700 \quad 900 + 900 = 1,800$$

YOUR TURN

Have a go at questions
1 - 4 on the worksheet

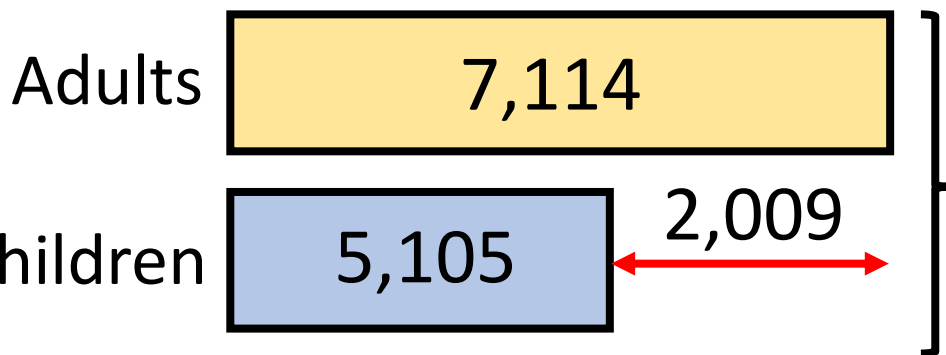


At a cricket match there are 7,114 adults in the crowd.

There are 2,009 fewer children than adults.

How many people attend the match? **12,219**

$$7,114 + 2,009 = \text{X}$$



TTh	Th	H	T	O
	7	1	1	4
	5	1	0	5
1	2	2	1	9

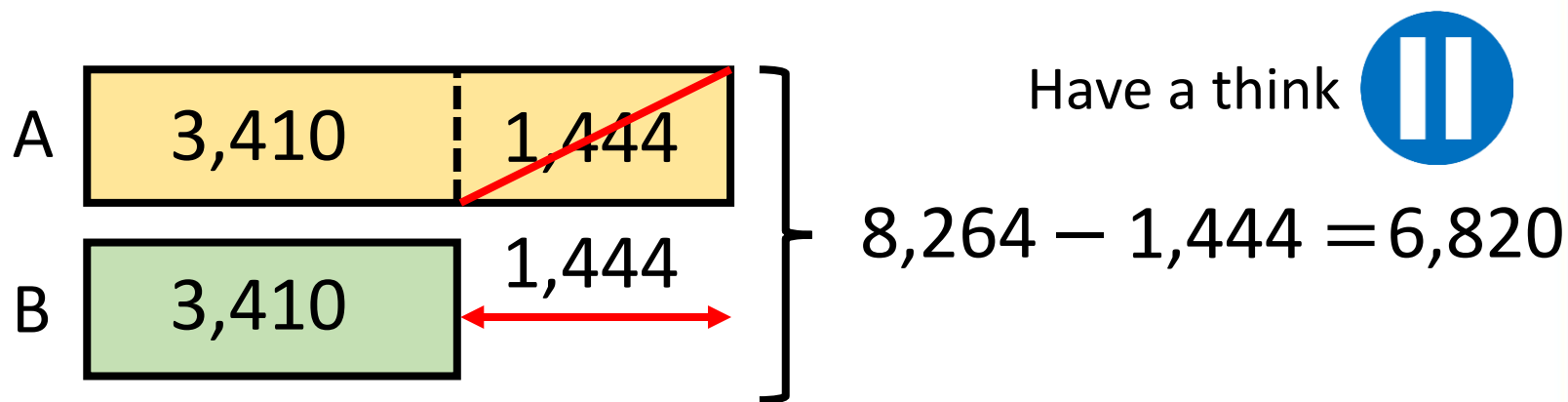
1

Two different numbers sum to 8,264

One of the numbers is 1,444 greater than the other.

What are the two numbers? $B = 3,410$ $A = 4,854$

3 and 4 sum to 7



$$3,410 + 6,820 = 10,230$$

YOUR TURN

Have a go at questions
5 - 8 on the worksheet

