

Add two 3-digit numbers – crossing 10 or 100



1 Complete the column addition.

a) $235 + 157$

Hundreds	Tens	Ones

H	T	O
2	3	5
+	1	5

b) $372 + 144$

Hundreds	Tens	Ones

H	T	O
3	7	2
+	1	4

4 Work out the additions.

a)

	H	T	O
	1	8	7
+	4	7	1

c) $718 + 108$

H	T	O
7	1	8
+	1	0

b)

	H	T	O	m
	5	1	7	
+	2	3	4	

d) $526 + 294$

H	T	O
5	2	6
+	2	9

5 a) Tick the additions with an answer that ends in zero.

$317 + 203$	<input type="checkbox"/>	$192 + 784$	<input type="checkbox"/>	$390 + 177$	<input type="checkbox"/>
$455 + 165$	<input type="checkbox"/>	$386 + 184$	<input type="checkbox"/>	$319 + 501$	<input type="checkbox"/>

b) Did you have to work out all of the additions?

c) Complete the sentences.

The answer to $175 + 212$ ends with a

The answer to $609 + 175$ ends with a

The answer to $334 + 178$ ends with a

The answer to $716 +$ ends with a 3

2 Tick the additions that need an exchange of ones for a ten.

	H	T	O		H	T	O		H	T	O
	2	3	8		4	2	7		3	0	8
+	1	4	1	+	2	6	8	+	1	5	1

How do you know if an addition needs to exchange 10 ones for a ten?

3 Dani uses counters to represent an addition.

H	T	O

a) What addition is Dani trying to work out?

b) Work out the answer to the addition.

c) How many exchanges did you have to do?

6 Find the missing digits.

a)

	H	T	O
	3		2
+	4	5	
		3	7

c)

	H	T	O
	2	7	8
+	2	5	
			0

b)

	H	T	O
	1	0	9
+		2	
	5		5

d)

	Th	H	T	O
		5	7	3
+				
	1	0	0	0

7 Dexter bakes 148 biscuits on Monday.

On Tuesday he bakes 273 more biscuits than he did on Monday.

a) How many biscuits does Dexter bake on Tuesday?

b) How many biscuits does he bake in total on Monday and Tuesday?

8 Write two addition calculations that have:

- 1 exchange
- 2 exchanges.

Compare answers with a partner.



Subtract 3-digit numbers from 3-digit numbers – no exchange



1 Complete the column subtractions.

a) $358 - 226$

Hundreds	Tens	Ones		H	T	O
				3	5	8
			-	2	2	6

b) $726 - 303$

H	T	O		H	T	O
				7	2	6
			-	3	0	3

2 Complete the subtractions.

	H	T	O
	6	7	2
-	4	7	1

	H	T	O
	5	6	3
-	1	5	1

5 A TV costs £120 less than this computer.
How much does the TV cost?



6 There are 849 people at a concert.
There are 625 adults at the concert.

a) How many children are at the concert?

b) How many more adults than children are at the concert?

7 What are the values of each of the shapes?

	6		8
-			
		1	5

=

=

=

	9		
-		4	

=

=

=

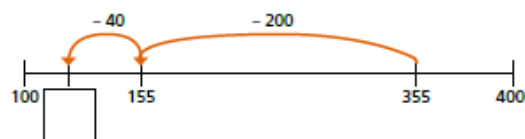
3 Ron is working out $785 - 257$

	H	T	O
	2	5	7
-	7	8	5

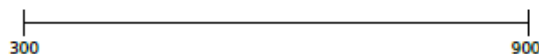
Do you agree with the way Ron has set out the subtraction?
Why?

4 Use the number line to work out the subtraction.

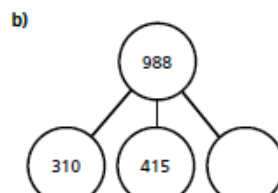
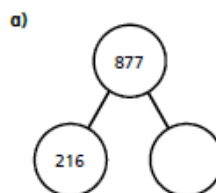
a) $355 - 240 =$



b) $835 - 501 =$



8 Complete the part-whole models.



9 Eva is subtracting 727 from 1,000

Why does Eva's method work?

Talk about it with a partner.

Use Eva's method to complete the subtractions.

$1,000 - 285 =$

$1,000 - 188 =$

$800 - 636 =$



Subtract a 3-digit number from a 3-digit number – exchange



1 Complete the column subtractions.

a) $254 - 126$

Hundreds	Tens	Ones

	H	T	O
	2	5	4
-	1	2	6

What exchange did you have to make?

b) $532 - 281$

Hundreds	Tens	Ones

	H	T	O
	5	3	2
-	2	8	1

What exchange did you have to make?

4 Talk about the mistake that has been made.

5	4	6
-	2	8
3	4	3

5 Complete the subtractions.

a)

	H	T	O
	7	0	0
-	5	4	6

b)

	H	T	O
	8	0	5
-	1	7	9

6 Work out the missing digits in these subtractions.

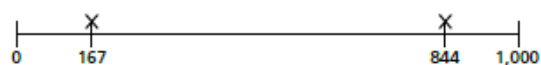
a)

	H	T	O
	7		5
-	3	4	
		7	3

b)

	H	T	O
		2	0
-	1		8
	2	9	

7 Two points are marked on a number line.



What is the difference between the two points?

2 Which of these calculations need an exchange?

Tick your answers.

	H	T	O
	6	5	8
-	1	4	4

	H	T	O
	3	2	3
-	1	1	7

	H	T	O
	4	2	9
-	1	7	2

How do you know?

3 Work out the subtractions.

a) $735 - 218$

	H	T	O
	7	3	5
-	2	1	8

c) $415 - 179$

	H	T	O
	4	1	5
-	1	7	9

b) $428 - 163$

	H	T	O
	4	2	8
-	1	6	3

d) $382 - 194$

	H	T	O
	3	8	2
-	1	9	4

8 Find the missing numbers.

a) $179 + \square = 595$

c) $95 + \square + 138 = 870$

b) $718 - \square = 348$

d) $\square - 446 = 503$

9 Here are 3 buildings.

- A is 150 m tall
- B is 317 m taller than A
- C is 223 m shorter than B



How much taller is C than A?

10 Aisha buys these items.



How much change does she have from £1,000?



Estimate answers to calculations



1 There are 195 people on a train.

There are 308 people on a plane.

a) Complete the sentences to estimate the total number of people.

195 is close to 308 is close to

My estimate for the number of people in total is

+ =

b) Work out the total number of people on the train and plane.

Was it a good estimate? How do you know?



2 Estimate the answer to $395 + 49$

395 is close to 49 is close to

My estimate is

Work out the exact answer.

How close was your estimate? Talk to a partner.



5 Amir is working out $195 + 412$

		H	T	O	
		1	9	5	
+		4	1	2	
		5	1	0	7

Use an estimate to show how you know Amir is wrong.

6 Mr Jones cycles some kilometres each day.

The table shows the distance he cycles.

Monday	Tuesday	Wednesday	Thursday
189 km	88 km	215 km	53 km

Mr Jones planned to cycle 500 km in total by the end of Thursday.

a) Has Mr Jones cycled as many kilometres as he planned? Give an estimate.

b) How far has Mr Jones cycled in total?

3 For each question work out an estimate and the exact answer.

Question	Estimate	Exact answer
$705 - 194$		
$511 - 97$		
$187 + 203 + 19$		

4 Why is it a good idea to estimate the answer to a calculation? Write one reason.

7 A bottle is full of 813 ml of orange juice.

A glass has a capacity of 495 ml.

Can you pour two full glasses of juice? Give an estimate.

Explain your answer.



8 Whitney is estimating if she has saved enough money to buy a new dress and a new bike.



Whitney has so far saved £220

I have not saved enough. £65 is close to £100 and £153 is close to £200. That means I need about £300

Is Whitney correct? _____

Explain your answer.



TTRS- complete minimum of 5 games. Where will you end up on the leaderboard this week?

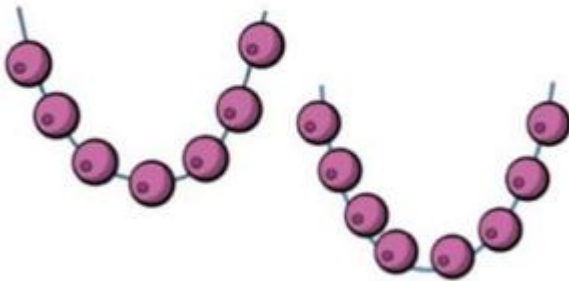
These are activities to keep our maths learning 'sticky'. Select at least 2 of the activities below to complete your maths lesson today.

- Numbots
- Maths games set as 2Dos on Purple Mash
- BBC Bitesize game- [Guardians Defenders of Mathematica](#)

Challenge 1

Sal has 20 beads.

She uses some beads to make these two necklaces.



How many beads does she have left?

Challenge 2

George is thinking of a 2 digit number.



My number is in the 5 times table.



My number is less than 80

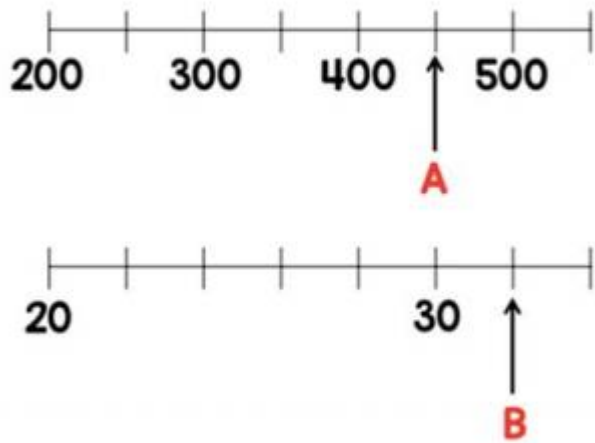


The sum of the digits is 9

What number is George thinking of?

Challenge 3

Two numbers, A and B, are marked on the number lines.



- Find the sum of A and B.