Page 1 - Monday - Addition

e:	730		
	н	U	
	¹ 5	¹ 3	1
+	1	9	7
	7	3	1

This is the written method for addition when regrouping.

First, estimate the answer to the nearest ten:

$$530 + 200 = 730$$

Add the units: 4 + 7 = 11 units.

Think of this as 1 ten and 1 unit.

Write the 1 in the units column and put the 1 in the

tens column.

Add the tens: 3 + 9 + 1 = 13 tens.

Write 3 in the tens column and 1 in the hundreds column.

Add the hundreds: 5 + 1 + 1 = 7 hundreds.

Is our answer reasonable? Yes, because it's close to our estimate.

Practise estimating answers by rounding to the nearest ten. The first one has been done for you.

	Question	Estimate
а	682 + 179	680 + 180 ≈ 860
c	359 + 222	
e	587 + 398	
g	189 + 108	

	Question	Estimate
b	271 + 119	
d	378 + 119	
f	412 + 98	
h	911 + 207	

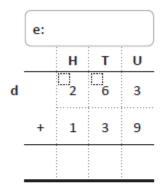
2 Add these 3 digit numbers using the written method. First, estimate to the nearest ten.

	e:			
		: Н	T	U
а		3	5	4
	+	2	1	7

	e:			
			Т	
b		6	2	8
	+	_	1	3

	e:			
		: н	Т	U
С		3	6	4
	+	2	2	8

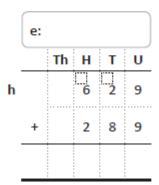
2 Add these 3 digit numbers using the written method:



	e:			
		Н	Т	U
e		3	. 4	4
	+	4	5	9

	e:				
		Th	Н	Т	
f				5	2
	+		_	4	9

	e:				
		Th	Н	Т	
g				6	2
	+		5	4	9



	e:			
		н		U
i		3	4	9
	+	. 2	8	7

Solve these word problems using the written method:

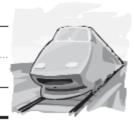
a At a muffin shop, 456 banana choc chip muffins were sold on Saturday and 458 caramel chunk muffins were sold on Sunday. How many muffins were sold that weekend?

	Н	T	U
+			



b A train left the station with 389 people on board and then another 678 people got on over the next three stops. How many passengers were on the train altogether?

	Th	Н	T	U
+				



Page 3 - Monday - Addition - EXTENSION QUESTIONS

1 Add these 4 digit numbers:

		Th	Н	Т	U
a		3	3	5	3
	+	1	0	2	1

		Th	Н	Т	U
b		2	5	4	6
	+	5	4	3	1
,					

		Th	Н	T	U
c		4	5	2	4
	+	2	1	6	4

		Th	Н	Т	U
d		3	6	3	1
	+	1	3	5	7

		Th	н	Т	U
f		2	: 4	3	
	+	5		4	6

2 Add these 4 digit numbers by regrouping:

		Th	Н	Т	U
a		6	6	3	8
	+	1	2	3	6

		Th	Н	Т	U
b		4	2	4	5
	+	2	5	1	7

	Th	Н	Т	U
c			2	9
	1	1	3	9

3 Add these 4 digit numbers by regrouping:

		Th	:	Т	
a		2		6	6
	+	2		8	7

		Th	Н	Т	U
b		3	1	8	7
	+	3	0	5	9

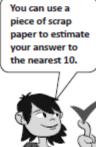
		Th	Н	Т	U
c		3		9	
	+	2		5	8

Subtract these 3 digit numbers using the written method. Start by writing your estimate. Estimate to the nearest 10.

	e:			
		Н	Т	U
a		6	5	2
	-	,	2	7

	e:			
		Н	Т	
b		7	_	1
		2	2	9

	e:			
			T	U
c		5	9	2
	-		4	8



CHECK



	e:			
		Н		U
d		5	8	2
	_	3	4	

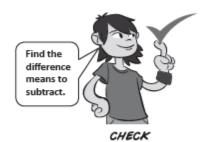
	e:			
		н	Т	U
e		6	5	1
	-	4	3	8

	e:			
		Н	:	U
f		9	: 0	2
	-	6	. 4	9

	e:			
			Т	U
g		8	8	2
	_	6	6	6

	e:			
		н	Т	U
h		7	4	3
	_	3	3	9

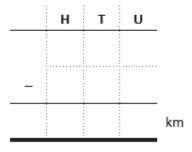
2 This sign shows the distances of towns along a highway from where the sign is. Find the difference between these places.



a What is the distance between Ringer and Normanville?

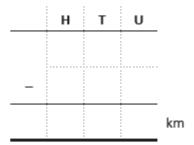
_	_	Н	Т	U
_	-			
-	-			
	_			

c What is the distance between Showtown and Ringer?



Showtown 971 km
Roper 893 km
Ringer 692 km
Eagle Bay 595 km
Normanville 567 km

b What is the distance between Roper and Eagle Bay?



d What is the distance between Roper and Normanville?

	Н	Т	
_			

km

Page 6 - Tuesday - Subtraction - EXTENSION QUESTIONS

Write the numbers which are above each problem in the correct place:

a 3 9

	3	6	2
+			7
	7	9	

8 3 3 2

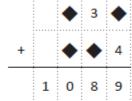
		6	5
_	4		
	4		3

8 4	8
+ 2	3
3	

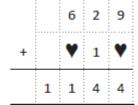
5 - 2 4		2	4	3
5	_			4
		5		

Solve these. The same symbol means the same number.

a

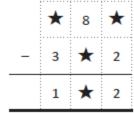


b

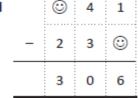




c



	1
	1
	1
. 1	
	 1
	1



⊕ =

Page 7 - Wednesday - Multiplication

	Н	Т	U
		¹ 5	4
×			3
	: 1	6	2

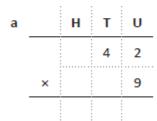
Start with the units. $4 \times 3 = 12$ units.

Rename this as 1 ten and 2 units. Put the 2 in the units column and regroup the 1 to the tens column.

 3×5 plus the regrouped 1 is 16 tens.

Rename this as 1 hundred and 6 tens.

Practise these problems:



b		Н	ı	Т	U
				3	8
	×				7

c		Н	Т	U
			2	5
	×			4

d		н	T	U
			2	6
	×			4

f		Н	Т	U
			6	2
	×			7

2 Use contracted multiplication to solve these word problems:

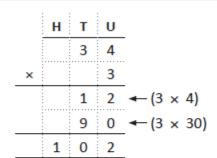
a On a farm, 6 lambs were born every day over 25 days. How many lambs were born in total?

		Н	Т	U
		:	:	:
		:	:	
		:	:	:
	×	:	:	:
				:
•		:	:	: -
		:	:	

b For my school fete day, I baked 9 trays of cupcakes. If there are 14 cupcakes on each tray, how many did I bake in total?

	Н	Т	U
×			

Written methods – extended multiplication



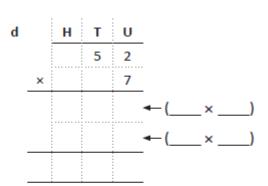
In extended multiplication, we multiply the units and tens separately, then add the answers together.

Practise these problems:

а		Н	T	U	_	
			2	3		
	×			4	_	
					← (4	× 3)
					← (4	× 20

		:		:	
b		Н	T	U	
			3	6	
	×			5	
					← (5 × 6)
					← (5 × 30)
					•

C		Н	Т	U	_		
			/	- 4			
	×			6			
					← (×)
					<u>← (</u>	×)
					•		



2 Use extended multiplication to solve this word problem:

In a pet store, there are 7 tanks of tropical fish with 14 fish per tank.

How many fish are there altogether?

	Н	T	U	
×				
				—(×)
				← (×)

Symbols solve What Can you work out the value of each symbol? to do The values are 2, 3, 4, 6, 8, 9 and 12. Remember, the same symbol means that it's the same number. \wedge × \wedge = \wedge ▼ × ★ = ○ ▼ × ▼ = 🚱

Page 10 - Thursday - Division

Another way to represent division is with the division symbol.

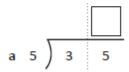
T U

This is the same as $36 \div 6 = 6$

6

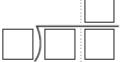
If the answer is a single digit, it should go in the units column.

Solve these division problems using the division symbol:



2 Use the division symbol to solve each problem:

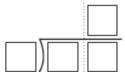
a 42 cupcakes were iced by 7 kids. If they each iced the same amount, how many did they ice each?



b How many pots were used if 6 seeds were planted in each pot from a packet of 54?



c I run the same distance each day. Over 9 days the total distance is 72 km. How far did I run each day?



Page 11 - Thursday - Division

This is the way we write remainders when using the division symbol.

This is the same as $15 \div 6 = 2$ remainder 3.

Check your work with the closest multiplication fact:

$$6 \times 2 = 12$$

Then add on the remainder: 12 + 3 = 15

Solve these division problems and then check them.

					r	
a	8)	2	7		

Check with the multiplication fact and add the remainder:

_
-
emainder

				r	
b	9	3	8		

Check with the multiplication fact and add the remainder:

	×		+		=	
multi	, iplicatio	n fact	re	maind	er	

					r	
c	6	Г	4	5		

Check with the multiplication fact and add the remainder:

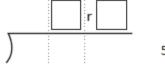
1	×	+		=	
1					
		ı		l	
	Jahren Breeze S	 			

] r [
d	5)	4	8		

Check with the multiplication fact and add the remainder:

	_					
	×		+		=	
multi	iplicatio	n fact	re	maind	er	

2 What is the question if I am checking with this multiplication fact?



$$5 \times 6 + 3 = 33$$

Page 12 - Thursday - Division - EXTENSION QUESTIONS

In short division with 3-digit numbers we split the number:

468 is 400 + 60 + 8

400 divided by 2 is 200, so we put a 2 in the hundreds place. 60 divided by 2 is 30, so we put a 3 in the tens place. 8 is divided by 2 is 4, so we put a 4 in the units place.

	Н	T	U	
	2	3	4	
2	4	6	8	_

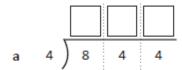
Practise splitting these:

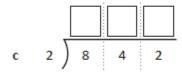
- a 368 is _____ + _____ + _____ b 445 is _____ + ____ + ____
- c 567 is _____+ ____+
- d 235 is _____ + ____ + ____

Now put these split numbers back together:

- a 500 + 70 + 8 is _____ b 700 + 90 + 4 is _____
- c 200 + 40 + 6 is _____
- d 800 + 50 + 5 is

Solve these division problems with 3-digit numbers:





Here are two division problems with missing numbers in the questions. Find out the missing numbers by using the numbers that are part of the answer as clues.

