Teacher note: If children are secure with exchanging within column method, move them onto reasoning or problem solving questions once you are happy with their progress.

L5	WALT: I can subtract using column addition with exchanges	
K	I can subtract using column method I can reason how to subtract using column method	
15	I can subtract using column addition I can discuss common mistakes when using column method.	
	I can subtract using column method and dienes	
Nasty Maths	No Nasty Maths	

Recap

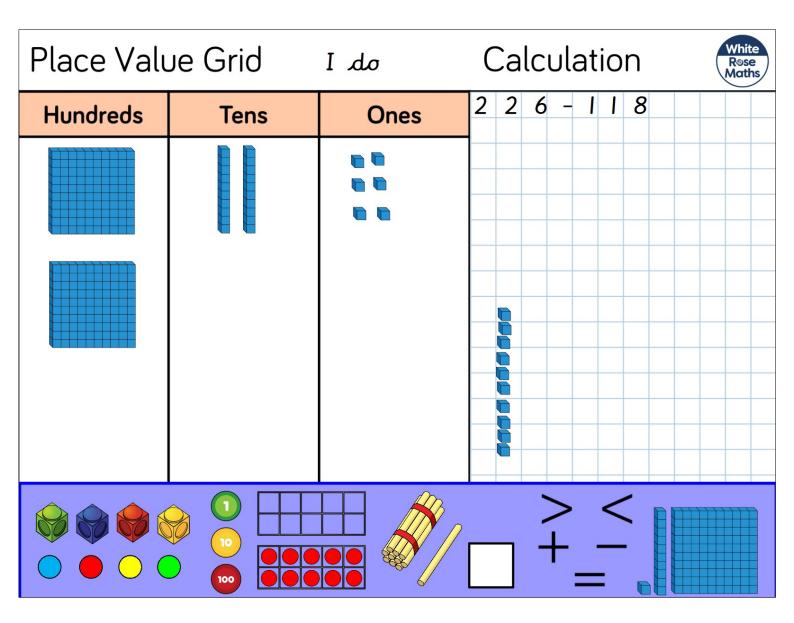
Tell me how to subtract using column method

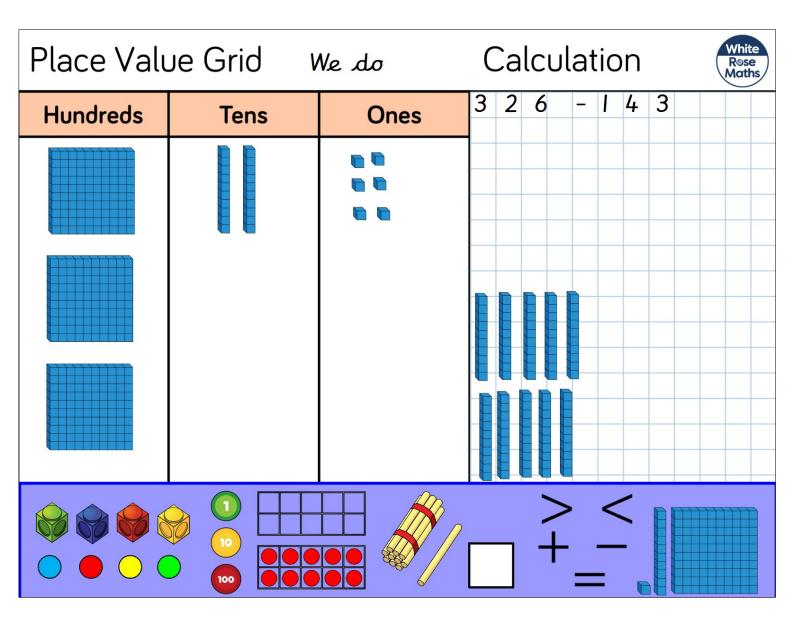
	2	7	3		6	8	2	
-		2	1	-		5	1	

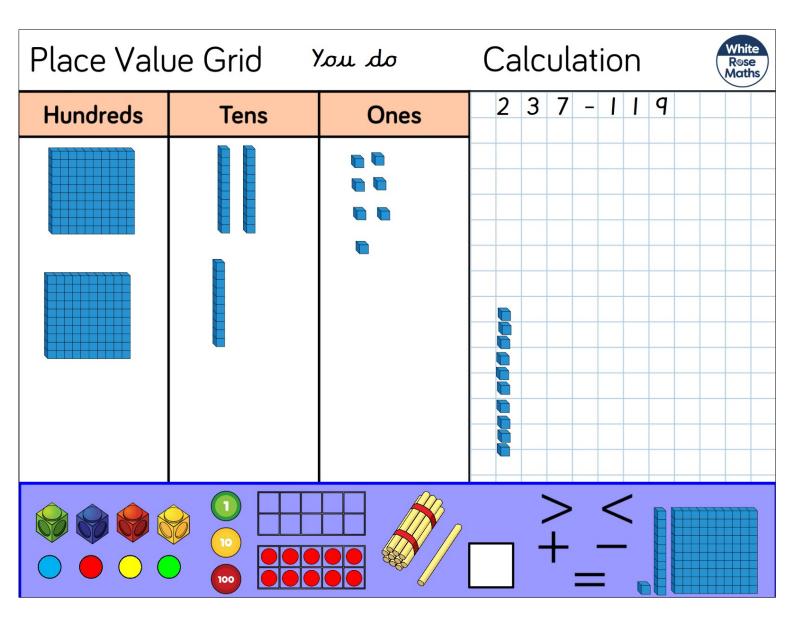
Mi	sco	no	epti	on			itra ibe		ng	frc	m.	the	bo	otto	m
					^										
	5	2	4												
		5													
Mx	ıke	4	one	es.	Ca	n ı	jou	to	ıke	6	fro.	m)	the	n?	
M	ıke	2 .	ten	S.	Cau	r y	ou	ta	ke	5 x	ens	i fr	om	. th	em
W	rat	do	W	e x	reec	d to	o d	σ?							

Mi	SCO	no	epti	on	_	O 15	sub	tra	ct	5 =	= 5		
	5	0	7										
	3	5	6										
Yo	u h	ave	9 0	in f	ror	nt o	f yo	ou.					
Ca	n y	ou	tak	e 5	fro	om	it?						
W	rat	do	W	e 1	reec	d to	o d	ο?					

W	rat	ot	her	to	p t	ips	co	ın ,	yoı	ı th	rink	یم ع	P	
W	rat ren	. u	sing	g c	olu	mn	m	eth	od?					
	5	0	7											
	3	5	6											







		_
L6	WALT: I can add and subtract to solve problems	
	I can use column addition and subtraction to problem solve	
	I can explain how I solved the problems proving that I am correct	
15	I can use column addition and subtraction to problem solve	
	I can explain how I solved the problems using drawings to help me	
	I can solve word problems with support	
Nasty Maths	No Nasty Maths	

Rec	ар													
	2	4	5			3	6	2			3	5	3	
-	1	5	2		-	2	3	4		+	4	7	8	
If yo	u are	sub	tract	ing a	nd yo	u do	not	have	enou	igh, y	ou s	hould	d:	
a) ta	ke av	way f	rom	the b	otton	n nun	nber	inste	ad.					
b) e	xcha	nge f	rom 1	the te	ns.									
c) ex	kchai	nge fi	rom 1	he n	ext bi	gges	t col	um n.						

How to use 'RUCSAC' to help us to solve word problems













Read

Read the question.
What is the important information?

Understand

Understand the question.

What do you need to find out?

Choose

Choose the correct method of calculation and operation(s).

Solve

Solve the problem. Make sure you follow the steps.

Answer

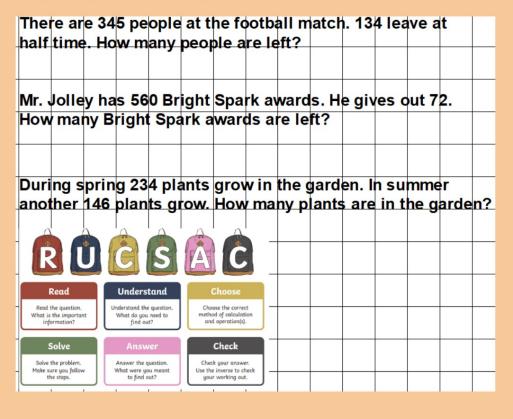
Answer the question. What were you meant to find out?

Check

Check your answer.
Use the inverse to check
your working out.

Read the word problems with your partner.
Use 'RUCSAC' to find the important information and what method you need to use.

If you have time, try and find an answer.



l do	•														
Ther	e are	342	chairs	on t	he be	ach.	234 a	re ful	. "						
How	man	y are	empt	y?											
										Ĉ			A	Ĉ	
							Read Read the question. What is the important information?			Understa What d	erstand nd the quest to you need ind out?	tion.	Choos method	hoose se the correct of calculate operation(s)	tion
							Solve the problem. Make sure you follow the steps.			Answer What w	the question ere you mee find out?		Check Use the	your answinverse to co	heck

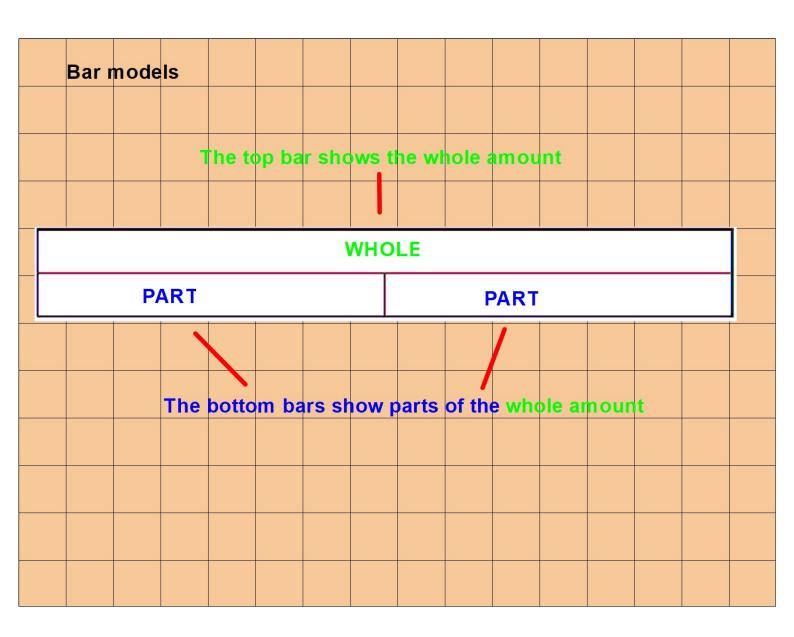
We	e do														
The	sho	has	453 1	oys.	232 n	ew to	ys ar	rive.							
Но	v mai	ny toy	s are	there	alto	gther'	?								
										Ĉ			A	Č	
							Read Read the question. What is the important information?		Understa What d	erstan nd the ques lo you need ind out?	tion.	Choos method	hoose se the correct tof calculat operation(s)	ion	
							Solve the problem. Make sure you follow the steps.		Answer What w	nswer the questic ere you med find out?		Check Use the	your answ inverse to c working ou	heck	

V-															
YO	u do														
	e tree							ts of							
580	cm? H	low r	nuch	of the	tree	is left	?								
									•					•	
									U				A	C	
								Read		Und	lerstan	d	С	hoose	
							What is	the question the import ormation?		What d	nd the ques lo you need ind out?		method	se the correct l of calculati operation(s).	ion
								Solve		A	nswer			Check	
							Solve the pro Make sure you the step			What w	the questic ere you med find out?		Use the	your answe inverse to ch working out	neck

LI	WALT: I can solve missing number addition problems	
K	I can solve missing addend problems I can explain how to solve missing addend problems	
15	I can solve missing addend problems that use 3 digit numbers	
1	I can salve missing number problems	
Nasty Maths	In folder	

Reca	ıp													
What	t info	rmat	ion ir	the	se qu	estic	ns is	help	ful?	Use '	RUC	SAC	to he	elp
you.														
	-			, ther	e are	45 a	pples	s and	134	bana	nas.	How	mucl	ո frui
is the	ere al	togth	ner?											
The I	baker	has	32 ca	ıkes.	She	sells	13 o	f ther	n. Ho	ow m	any c	akes	does	she
have	left?													
			R			C	S	A	Č	3				
			Read th What is th	ead e question. he important	Ur	Undersinderstand the	question.	Cho metho	Choose ose the corre	tion				
				olve		find ou			d operation(s					
			Make sur	e problem. e you follow steps.		Answer the q Vhat were yo to find o	ou meant	Use the	k your answ inverse to c r working ou	heck				

Lesson 3 – Missing addend problems		
Challenge – What is the missing number in the box? Explain how you worked it out. 47 + = 54		
Mega Challenge – What is the missing number in the box? Explain how you worked it out.		
329 + = 743		



	W	e wi	II ne	ed to	lea	rn th	iese	2 w	ords					
Δ	dde	nd -	a nu	mbe	r tha	t vo	u ad	d to	ano	ther	num	her		
		the							·				er	
Т	he <mark>s</mark>	um i	s alv	ways	the	who	ole a	mou	nt					
A	dde	nds	are a	ılwa	ys p	art o	f the	am	ount					
Can	you	thin	k of	an e	xam	ple	of ar	ado	dend	or a	sun	n?		

		ΑD	DE	ND	+	A	DE	ND	=	SL	М				
								SL	JM						
				AD	DEI	VD					Αl	DDE	ND)	
		4	2	+	3	4	_	7	6						
								7	6						
				4	2						3	4			
L	abe	el on	e ba	r mod	del to	sho	w wh	ere th	ne <mark>su</mark>	m an	d ad	dend	s go.		
L	abe	el the	e oth	er ba	r mo	del w	ith th	nis nu	ım be	r ser	itenc	e 57 -	- 23 =	80	

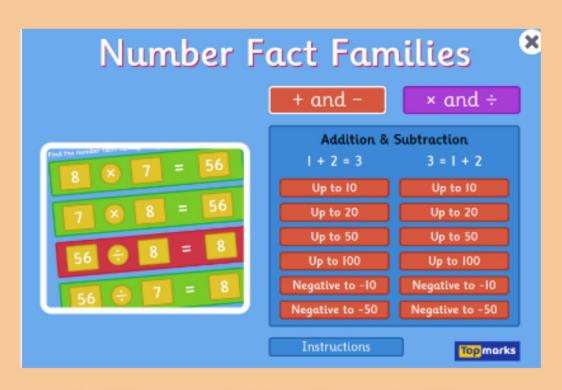
A	DD	EN	D +	- A	DD	EN	D =	S	UM						
							SU	M							
		/	4 D E	DEN	ID					ΑD	DE	ND			
	4 2 + ? ? = 8 4														
	7 6														
	7 6 ??														
		Ther	- l	no le	alm a		To	find :	the m	alaal					
					_			find the v			ng pa	art, v	ve		
	7	6	-	4	2	=	3	4							
	(4	2	+	3	4	=	7	6)							

Ι.	do														
	3	2	+	?	?	=	8	4							
	"Т	here	is a	miss	ina r	part	To fi	nd th	ne mi	issin	g pa	rt. w	8		
				oth							9	.,			

We	e d	σ													
	5	6	+	?	?	=	9	8							
	"T	here	is a	mier	eina	nart	Tof	ind ti	he m	iceir	a na	rt w	0		
			ct th		_	-					y pa	it, w	6		

Yo	u ,	do											
	7	8	+	?	?	=	1	5	9				
		CT.							Alb	 			
			re is ract t							ing p	oart,	we	

Can you spot all the related facts?



Addition and Subtraction up to 100

L2	WALT: I can solve missing number subtraction problems	
	I can solve missing subtrahend problems I can explain how to solve missing subtrahend problems	
15	I can solve missing subtrahend problems that use 3 digit numbers	
	I can salve missing number problems	
Nasty Maths		

Rei	cap												
Wh	at d	oes	'add	end'	mea	an?							
			-	-									
Wr	nat d	oes	'sum	n' me	an?								
			ch n		ers	are a	adde	nds	or s	um i	n th	s	
nui	nbei	rser	itend	е									
3	2	4	+	1	5	2	=	4	7	6			
So	lve t	his:	3	4	2	+	?	=	4	9	8		

					Le	esson 4	– Missi	ng subt	rahend	proble	ms				
						numbe	r in the	box? E	xplain	how yo	u worke	ed it out	t.		
	5	6 -		= :	15										
			llenge -			nissing r	number	in the l	oox? Ex	oplain h	ow you	worked	d it out.		
		, ,		- 20											

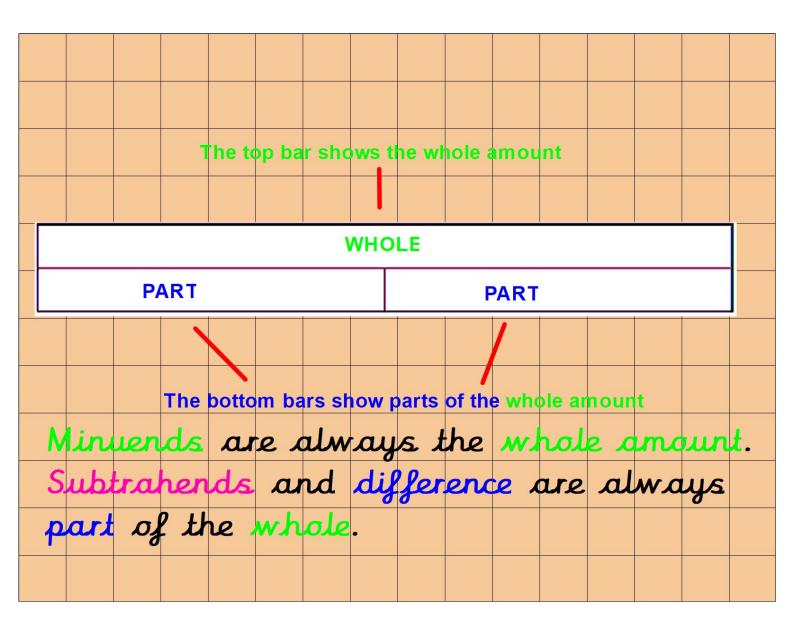
We will need to learn these words

Subtrahend - the number you are taking away

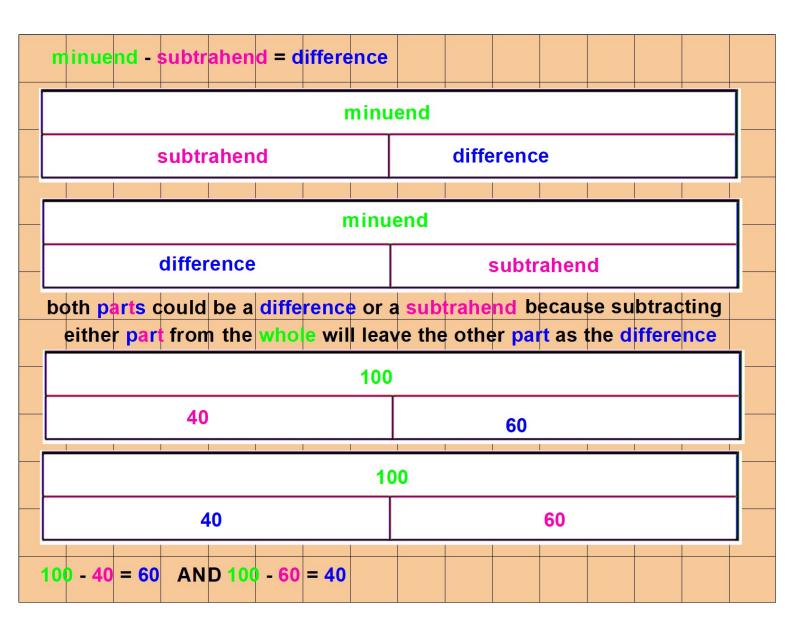
Minuend - the number you are taking from

Difference - the amount between the subtrahend and the minuend.

Can you think of an example for each one?



	mi	nuen	d - sı	ıbtra	hend	= dif	feren	се						
						I .	mir	nuend	d					
			suk	otrah	end			\top	di	fferei	nce			
ľ					l	l	min	uend					l	
			diff	eren	се					sub	trahe	end		
			e bar nd ar				v whe	ere yo	ou ca	n put	the	minu	end,	
			e bar 154	mod	el to	show	v this	subt	racti	on:				
-	Tell r	ne w	hy bo	oth pa	arts c	ould	be a	diffe	rence	or a	sub	trahe	nd?	

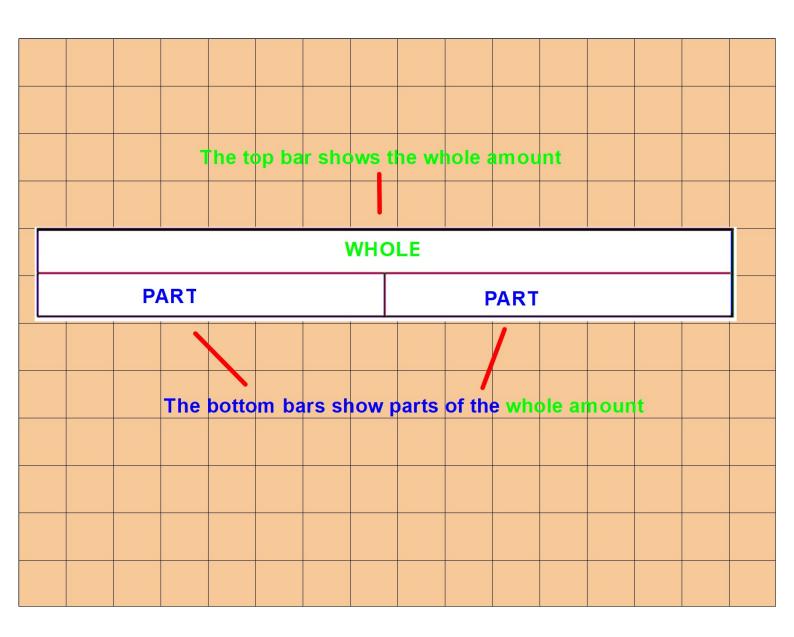


m	inuer	nd - s	ubtra	henc	l = di	fferei	nce						
							•	00					
÷ 5				?						30			
	1	0	0	-	?	=	3	0					
	1	0	0	-	3	0	=	7	0				
		Ther			n lm m		To	final f	the e	 			
				a mis ne oti	_					ng pa	art, w	/6	

We	do					ubtra	hend	= dif					
			3	4	5	-	?	=	7	3			
						34	5						
		7	73							?			
		ere is			-					sing (part,	we	

Yo	u do		mi	inuer	ıd - s	ubtra	hend	l = di:	fferer	nce			
			6	7	4	-	?	=	1	3	5		
						67	4						
		•	135							?			
			135							?			
			135							?			
		ere is	am		-						part,	we	

_		
L3	WALT: I can solve missing number subtraction problems	
	I can solve missing minuend problems I can explain how to solve missing minuend problems	
15	I can solve missing minuend problems that use 3 digit numbers	
	I can salve missing number problems	
Nasty Maths	In folder	



Tell me how to solve these missing number problems

10 HP for using any of the key language we have been using

Challenge – What i					
Chanenge – What					
-43					
Mega Challenge –	~				
-527 =	87				

We will need to .	learn these words
Subtrahend -	
Minuend -	
Difference -	
ian you think of a	n example for each one:

	l do			mi	nuen	d - sı	ubtra	hend	= dit	ferer	ce				
				?	-	4	5	=	1	3	5				
							?			1					
								45							
			•	135			,			45					
!				135						45					
				135						45					
		There	e is a	miss		vhole	. To f	înd tl	ne mi			ole, w	/e		

We	do		mi	nuen	d - sı	ubtra	hend	= dif	feren	ice				
			?	-	7	5	=	2	5	2				
						?								
		10	75				252							
							_							
	"There				/hole	. To f	find th	ne mi	ssing	y who	ole, w	e		

You	ı do		mi	nuen	d - sı	ubtra	hend	= dit	ferer	ice				
			?	-	3	7	3	=	1	8	6			
						?								1
		13	75				252							
	"There				vhole	. To f	find th	he mi	issing	y who	ole, w	/e		

Can you solve missing number subtraction problems?

(Click on 'Up to 100')

https://www.topmarks.co.uk/maths-games/subtraction-grids

