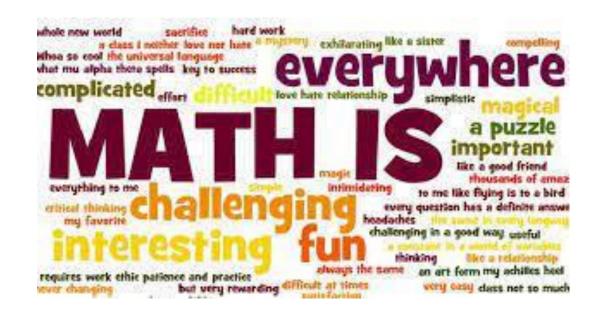
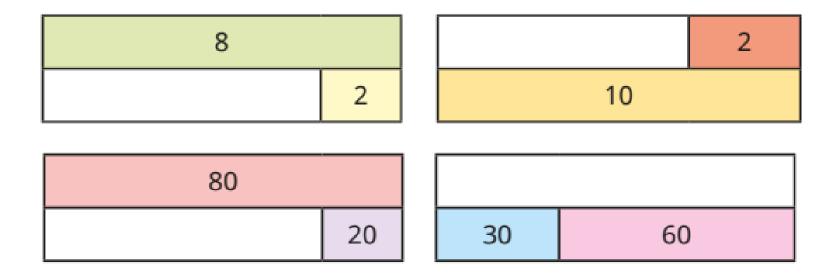
Year 3 & 4 Maths workshop

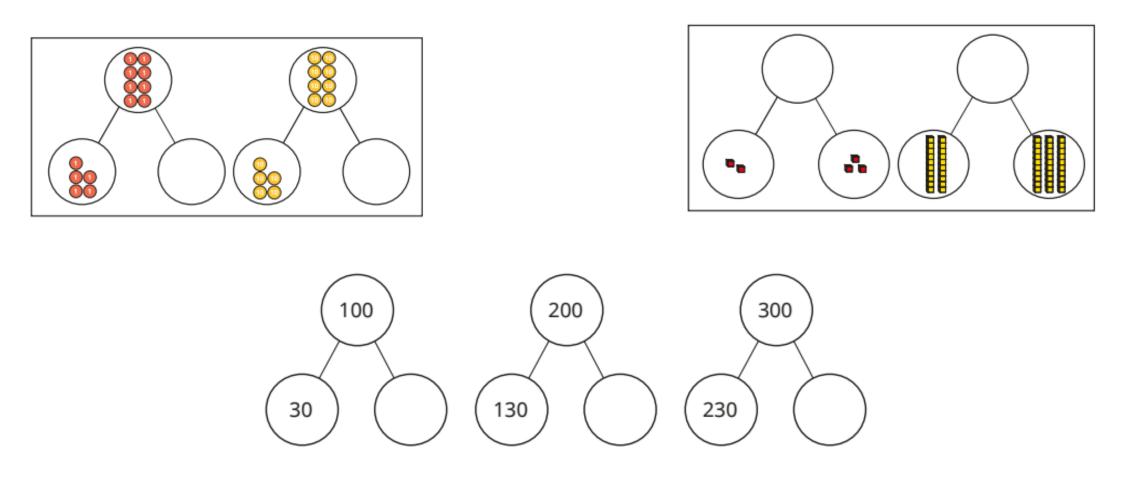


Bar models



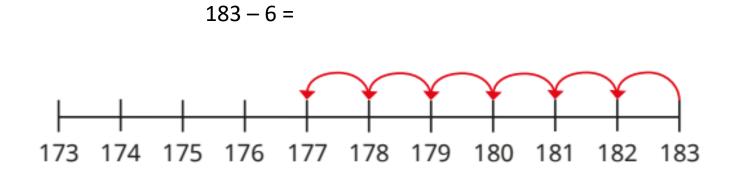
A pictorial representation of a problem or concept where bars and boxes are used to represent known or unknown quantities.

Part- whole model

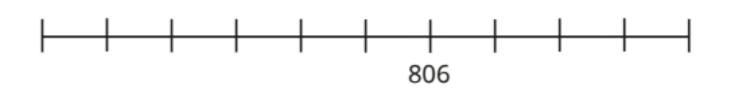


The part whole model is a pictorial representation that shows the relationship between a whole and its parts.

Number lines



Can you use the number lines to add on 3?



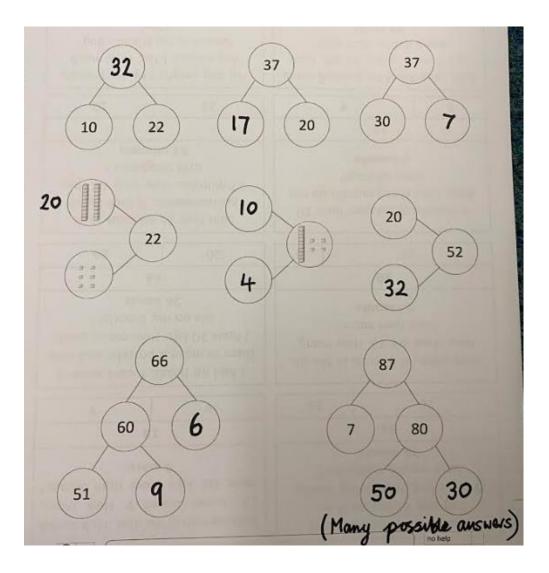
Your turn.....

• Solving problems using bar models and part whole models.

(We will be marking them at the end!)



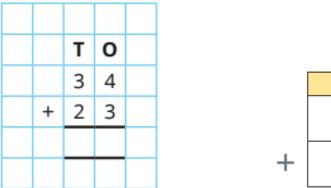
Answers



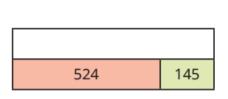
Problem Solving with Bar Models **Answers**

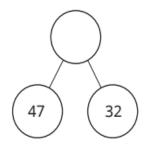
There are 20 sweet bag and 13 sweet friend's bag. How mo have we got altog 33 sweets 33	s in my iny sweets jether?	18. Jame	In three rolls of the dice, Jack scored 18. James scored 9. How many more did Jack score than James? 9 more 18					
20	13	9		9				
There were 30 biscuit Now there are 25. H have been eat 5 biscuits	ow many	them to n I have 20	I had 46 beads. I used some of them to make a bracelet and now I have 20 left. How many beads are on my bracelet? 26 beads					
30			46					
25	5	20		26				
4 months of the yea days. How many mor have 30 day 8 months	ths do not	Sam took 25 minutes to do his homework. It took Jacob 22 minutes. How long did they take altogether? 47 minutes						
12		47						
4	8			22				
to Ali. Now he has 34				5kg. My friend's kg. How much friend's dog? kg 2				
25	34	5	-	7				

Adding numbers (no exchange)

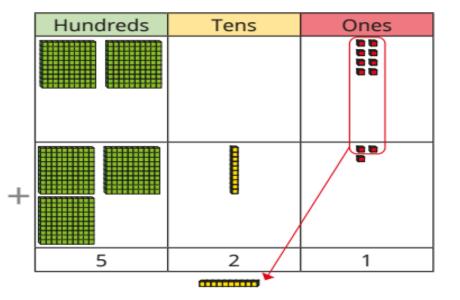


	Tens	Ones
-		



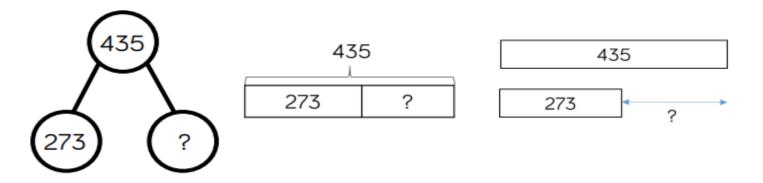


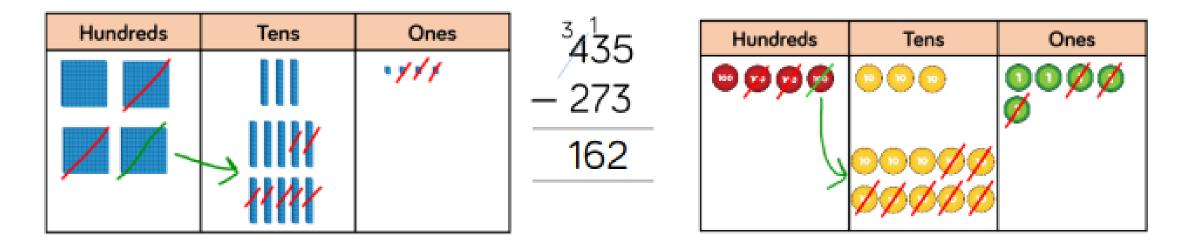
Adding two numbers across a 10



	н	т	0	
	2	0	8	
+	3	1	3	
	5	2	1	
		1		

Subtract 3 digit numbers with exchange



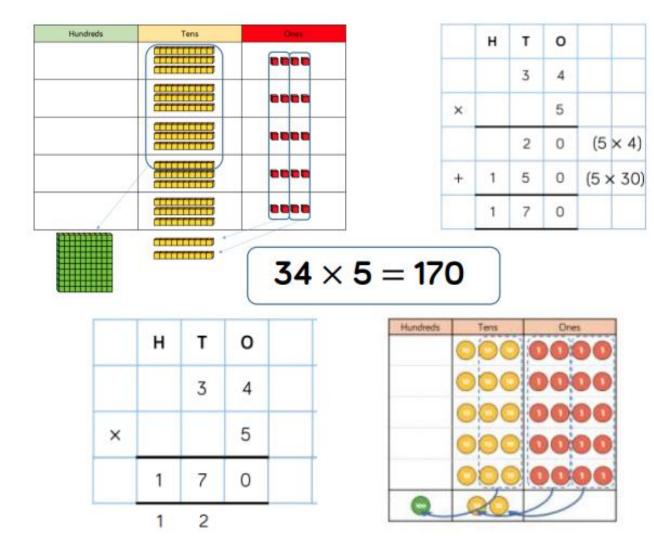


Your turn!

Answers

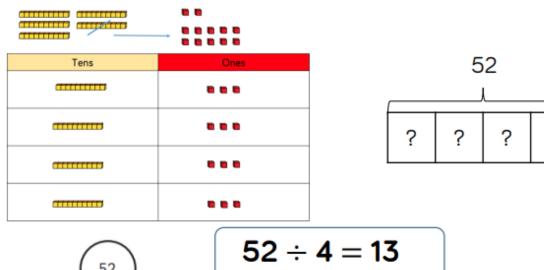
question	
1	3698
2	11810
3	2912
4	10016
5	1357
6	14934
7	3236
8	8984
9	1107
10	9123
11	2091
12	9027
13	715
14	10195
15	3810
16	8089

Multiplication

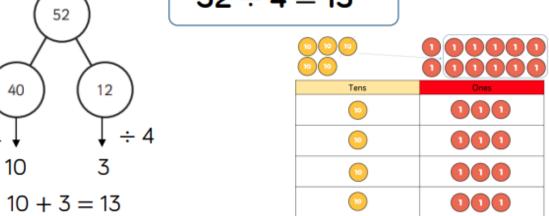


Division

÷4



?



Your turn....last one.....

• Solving formal methods of addition and subtraction.

Answers

Multiplying 3-Digit Numbers by 1-Digit Numbers **Answers**

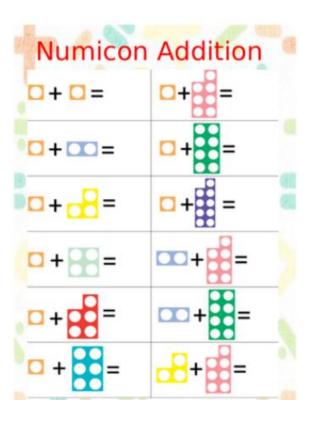
				-												
1)					2)				3)				4)			
	1	2	7			6	0	2		2	9	1		1	8	3
×			5		×			3	×			4	×			7
	6	3	5		1	8	0	6	1	1	6	4	1	2	8	1
5)					6)				7)				8)			
	4	6	6			9	2	8		5	1	9		3	7	5
×			2		×			3	×			6	×			8
	9	3	2		2	7	8	4	3	1	1	4	3	0	0	0
9)					10)				11)				12)			
	4	4	0			1	5	2		7	3	0		5	6	2
×			5		×			9	×			4	×			2
	2	0	0		1	3	6	8	2	9	2	0	1	1	2	4

Using Numicon



Used as a concrete resource – good for visual learners.

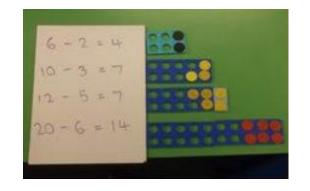
Addition



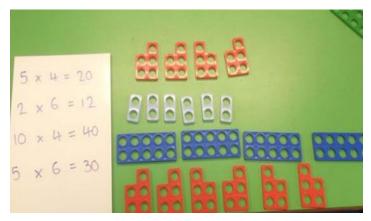
Subtraction

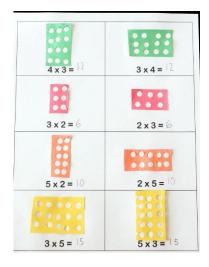
9 – 4 = 5



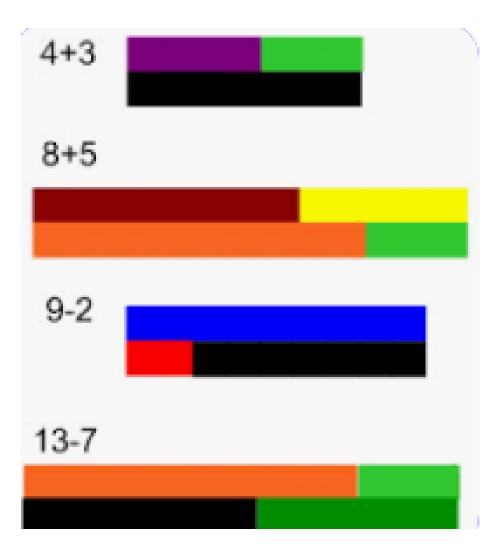


Multiplication





Cuisenaire rods





The rods can be arranged end to end to model addition, subtraction, multiplication and division.

There are very useful when teaching fractions.

Used as a concrete resource – good for visual learners.

Times tables

- Times table check in Y4 (June 2024) 25 questions, 6 seconds per question.
- Check is done on a digital device.
- Y4's should know up to 12 x 12 nearing the end of Y4.
- Timestable Rockstars (TTRS) and URBrainy good for support at home.