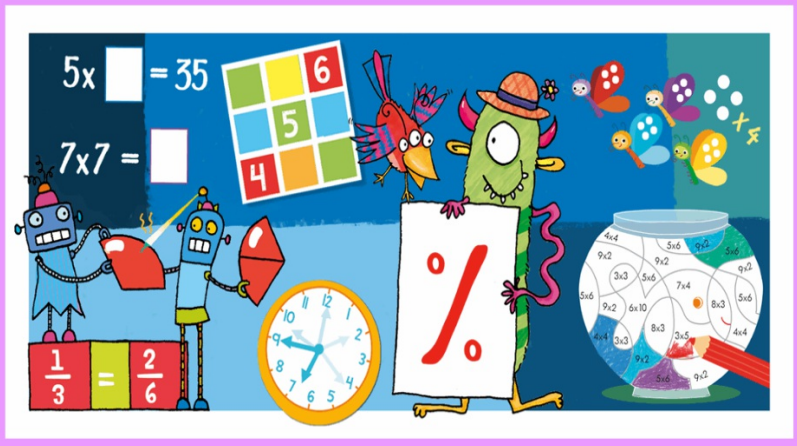
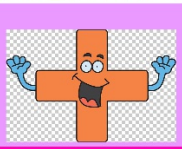
Good Morning Mathematicians



Day 1: Recap methods for addition
Day 2: Recap methods for subtraction
Day 3: Solve addition and subtraction sums using your preferred method
Day 4: Solve worded problems
Day 5: TT Rockstars and Mental Maths

Addition

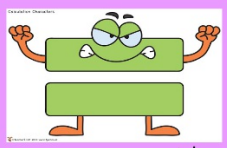


+

Subtraction

-

How many words can you think of?

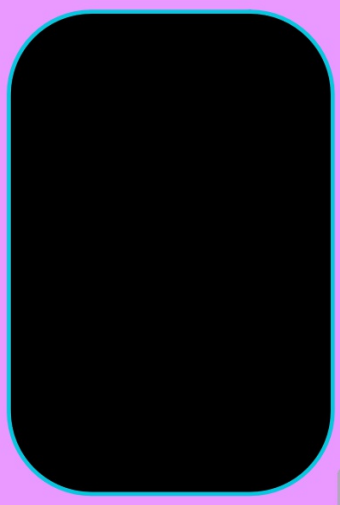


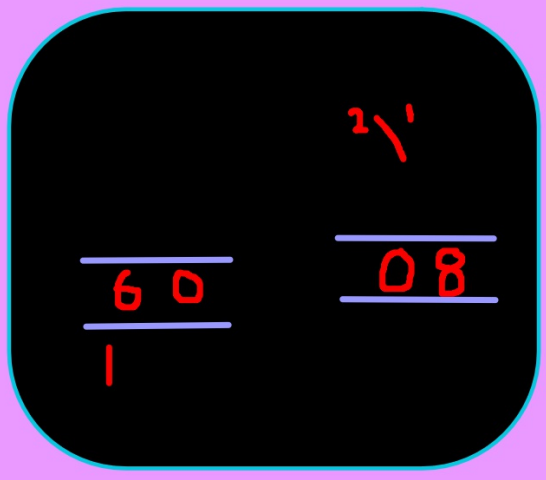
Equals means the same!

Day 1 - 8.2.21

Walt: Use diennes and column method to solve addition

Can you remember the methods we use to help us with addition and subtraction?





https://www.youtube.com/watch?v=7JlOkxuyLD0

Addition

Let's start by recapping using diennes and column method:

Let's practise counting diennes: pause the video now and visit the website below:
https://mathsframe.co.uk/en/resources/resource/554/Dienes-Identify-and-Represent-Numbers

Now let's have a go with these together:

1) 25 + 12 =

$$\begin{array}{r} 25 \\ +12 \\ \hline \\ \hline \end{array}$$

2) 53 + 36 =

$$\begin{array}{r} 53 \\ +36 \\ \hline \\ \hline \end{array}$$

3) 78 + 17 =

$$\begin{array}{r} 78 \\ +17 \\ \hline \\ \hline \end{array}$$

You could do this practically!

Complete these sums using diennes method:

23 + 13 =

49 + 22 =

54 + 37 =

35 + 26 =

46 + 26 =

48 + 42 =

32 + 48 =

62 + 45 =

Complete these sums using column method:

34	15	28	63
+ 22	+ 14	+ 11	+ 36
65	36	72	41
+ 46	+ 18	+ 59	+ 39

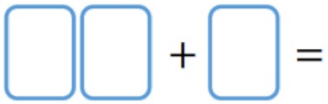
Challenge:

1.

Here are three digit cards.

Place the digit cards in the number sentence.

How many different totals can you find?



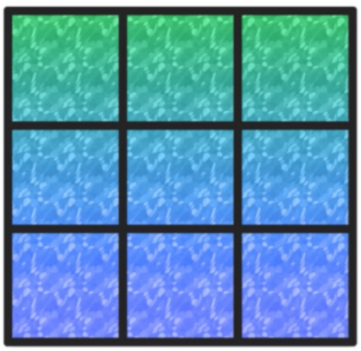
What is the smallest total?

What is the largest total?

Day 2 - 9.1.21

Math Riddle #1: Truth or Square?

How many total squares are there?

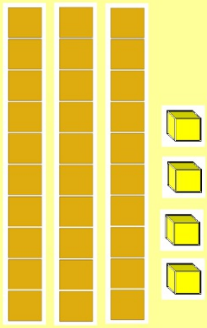


subtraction

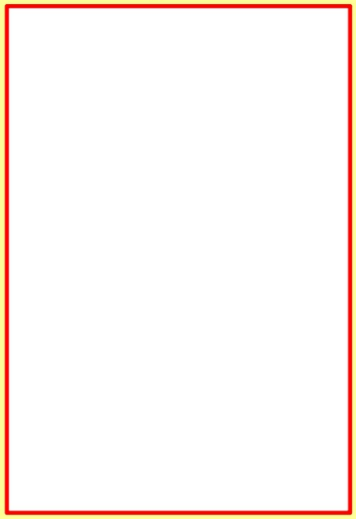
Day 2 - 9.2.21

Walt: Solve subtraction using diennes and the column method

34 - 27 =

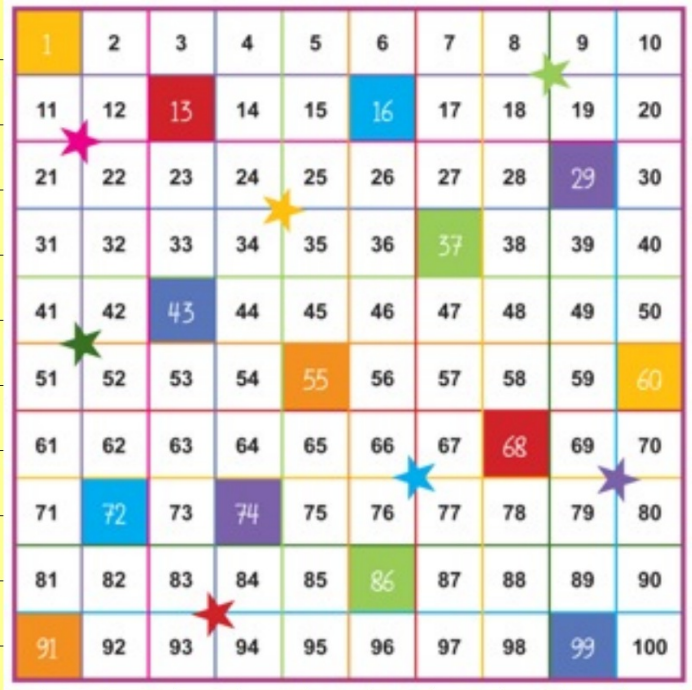


Have a go at these:



$$\begin{array}{r} 44 \\ -\ 26 \\ \hline \\ \hline \end{array}$$

Solve sums using the hundred square to help you.



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

22 - 6 =

33 - 10 =

35 - 25 =

62 - 37 =

Now it's your turn...

Using the diennes method solve these sums:

27 - 12 =

75 - 16 =

32 - 20 =

41 - 25 =

58 - 24 =

82 - 55 =

Now it's your turn...

Using the column method solve these sums:

27 -15	58 -21	40 -25
35 -20	73 -16	82 -55

Jack and Eva are solving the subtraction
23 – 9

Here are their methods:

Jack

I put 9 in my head and counted on to 23

I put 23 in my head and counted back 9

Eva

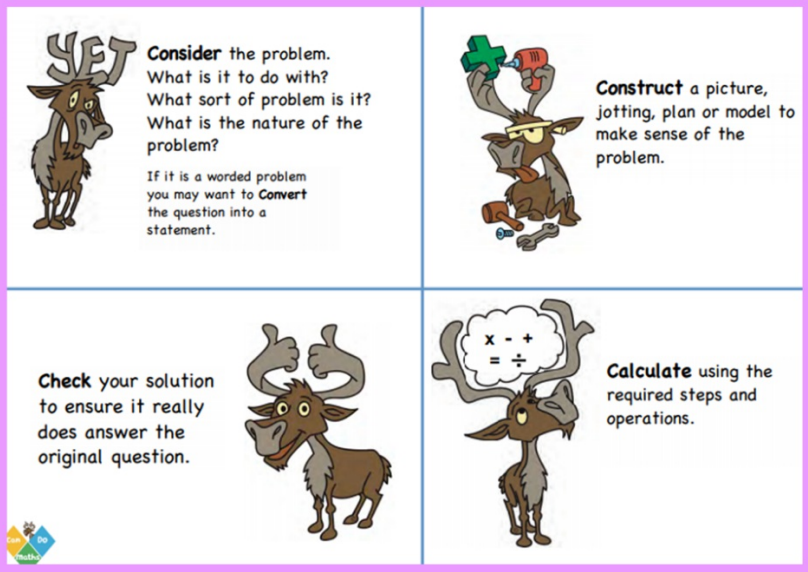
Who's method is the most efficient?

Can you explain why?

Can you think of another method to solve the subtraction.

Day 3 - 10.2.21

Walt: Solve addition and subtraction using preferred method (4 C's)



Day 3 - 10.2.21

Walt: Solve addition and subtraction using preferred method (4 C's)

Ben has 22 cards. James has 25 more than Ben. How many does James have?

x	÷
+	-

Consider the problem.
What is it to do with?
What sort of problem is it?
What is the nature of the problem?

If it is a worded problem you may want to **Convert** the question into a statement.

Construct a picture, jotting, plan or model to make sense of the problem.

Check your solution to ensure it really does answer the original question.

Calculate using the required steps and operations.

1.

What are the missing numbers?

64 = 10 + ☐

39 = 100 − ☐

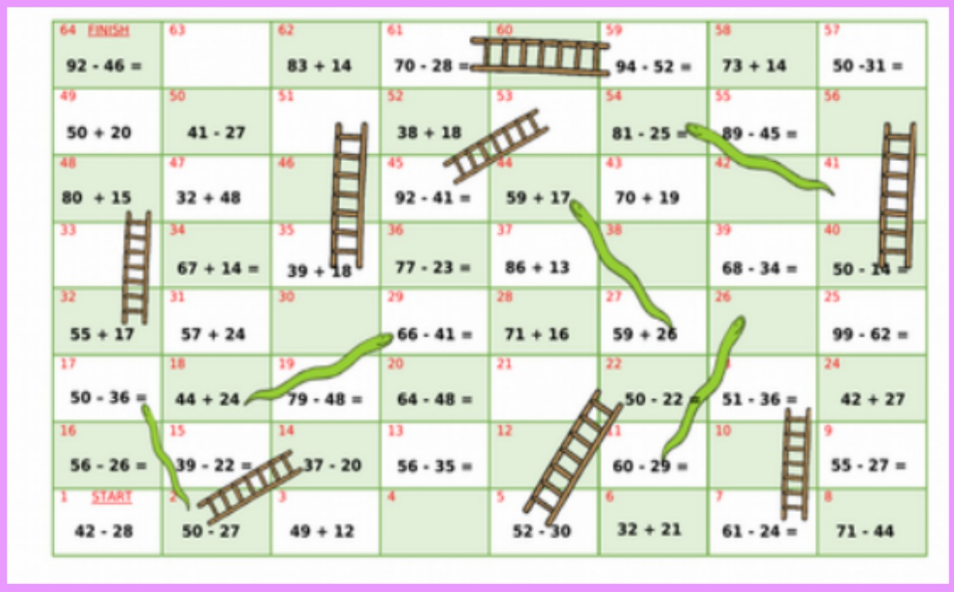
Consider the problem.

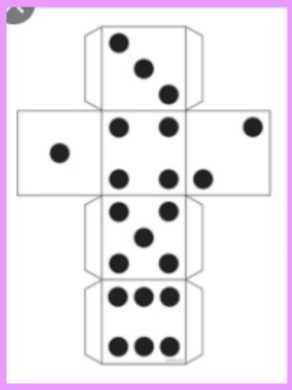
Construct a picture,

Check your solution

Calculate using the required steps and operations.

Play the snakes and ladders game. Solve the sums using your preferred method!





column?

diennes?

Find all the possible pairs of numbers that can complete the addition.

$$\begin{array}{r} 1\,\square \\ +\ 2\,\square \\ \hline 4\,2 \\ {\scriptstyle 1} \end{array}$$

How do you know you have found all the pairs?

What is the same about all the pairs of numbers?

Find the missing numbers.

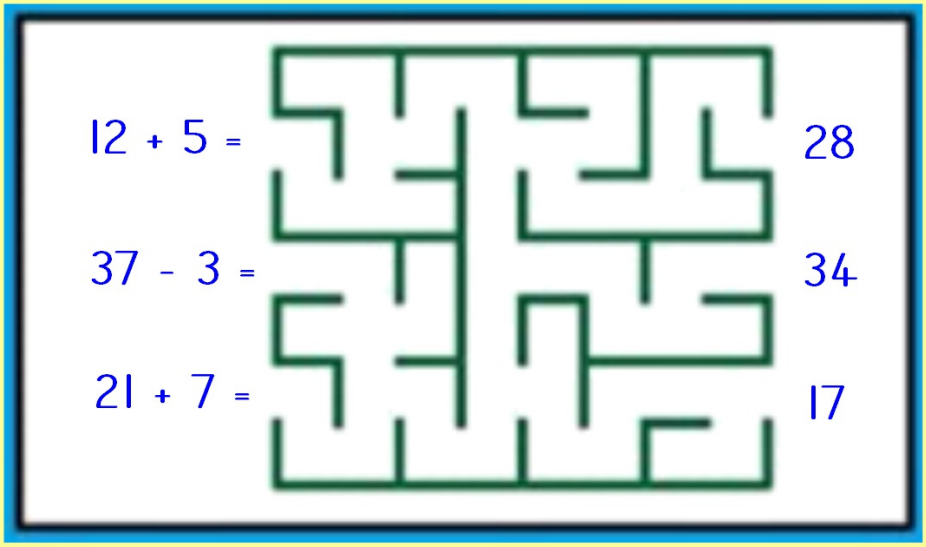
$$\begin{array}{r} 6\,\square \\ -\ 2\,\square \\ \hline 4\,2 \end{array}$$

Is this the only possible solution? Explain your answer.

Make the numbers using Base 10 to help you find your answer.

Day 4 - 11.2.21

Puzzle of the day

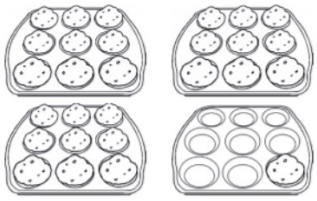


Walt: Solve word problems.

Solve these puzzles and show how you worked them out.

There are 52 people in the hall and 29 waiting to go in. How many will be in the hall when they have gone in?

1. I bake some buns for school. If we sell 35 and I have 28 left, how many buns did I bake?

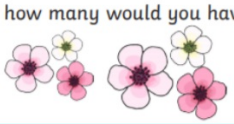


2. I have 75p to spend at the shop. If I buy a magazine for 35p how much money do I have left?

If you have 67 slices of pizza and 15 slices are eaten, how many slices would you have left?

If you have 72 rubber ducks and are given another 17, how many rubber ducks would you have?

If you have 100 flowers and give 34 of them away, how many would you have left?



If you invite 53 people to a party and 24 of them say they can't come, how many people will be at the party?

If you find 49 wooden beads under the sofa and then find another 50 in a box, how many beads would you have?

If you count 85 ladybirds in your garden and 21 fly away, how many ladybirds would be left?

If you have 47 pennies and you find another 13 in your pocket, how many pennies would you have?

If you have 57 gobstoppers and eat 18 of them, how many would you have left?

Complete these word problems.

Remember:

Use a method and show your working out!

Colin the carabu might help here! The 4 C's

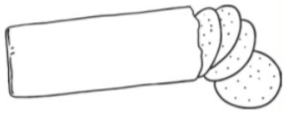
Aim: I can solve two-step problems involving addition and subtraction.

1. John buys 12 pencils one week and 7 the following week. He gives 3 pencils to his friend.

How many pencils does he have left?

3. Asif has a packet of biscuits. There are 12 in the packet. He gives 6 of the biscuits to some friends. He buys another packet of 12 biscuits.

How many biscuits does he have now?



Day 5 - 12.2.21

Maths riddle of the day

Easy

What is the Number?

1

- The number has 2 digits
- It is smaller than 20
- It is bigger than 10
- The ones digit is bigger than 1 but smaller than 3
- The tens digit is smaller than 2

Hard

What is the Number?

5

- The number has 2 digits
- It has the same number in the ones and the tens
- It is bigger than 65
- The ones digit is bigger than 5 but smaller than 8
- The tens digit is an even number
- It is smaller than 68

Day 5 - 12.2.21

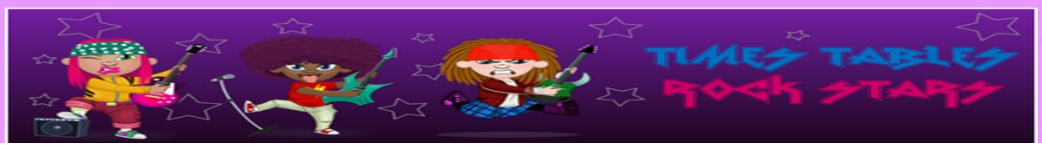
Walt: Solve addition and subtraction using preferred method

Practise counting:

* Count from 0 - 100
* Count from 100 - 0
* Pick a number:
  - add 10
  - take away 10

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- Practise your 2, 5 and 10 times tables by writing them out.

  Then visit Times Tables Rockstars. Can you beat your previous score?

- Challenge a friend to a match.