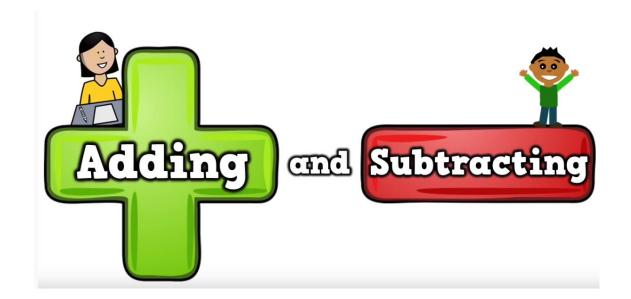
YEAR 2 MATHS



HOME LEARNING BOOK

Use patterns to complete this addition table:

а	3 + 5 =	30 + 50 =	300 + 500 =
-			

Adding more than two numbers together is easier if we look for a ten. Circle the numbers that add to 10 first, then add what is left:

Circle the numbers that make 10. Look for sets going across and down. One set has been circled for you. How many more can you find?



Look for a ten and change the order of the numbers in each addition problem to make it faster to add.

a 4 + 5 + 3 + 5 + 6

b 9 + 3 + 7 + 1 + 5

=

=

Addition mental strategies – doubles and near doubles

Doubles facts are the same number added together.

3 + 3 = 6 is the same as saying double 3 is 6.

Write a doubles fact to match each picture:

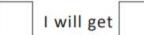
a	Double	the	fingers:



b Double the pencils:



If I double I v



If I double



c Double the spots:



d Double the lace holes:



If I double

1 1	
I will get	

If I double

I will	get
--------	-----

2 Use these addition frames to double each of these numbers as quickly as you can:











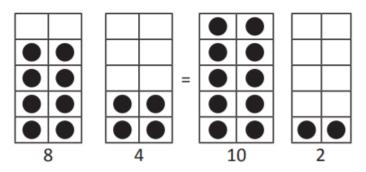


+ =

Addition mental strategies – bridge to ten

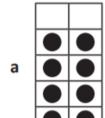
Bridge to ten is when we make the first number up to 10 and then add what is left.

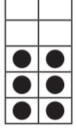
Let's start by using ten frames:

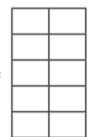


$$8 + 4 = 10 + 2 = 12$$

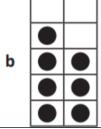
Look carefully at the first set of ten frames. Bridge to ten on the second set and complete the addition.

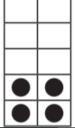


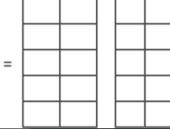


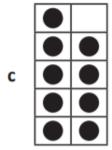


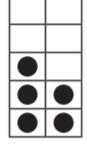


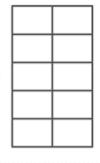


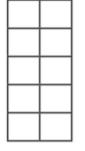


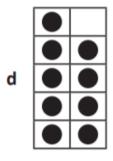


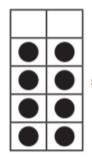


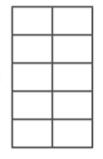






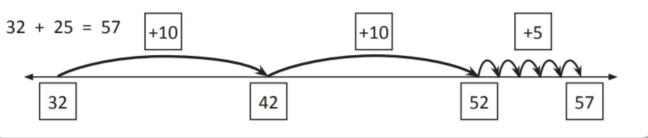




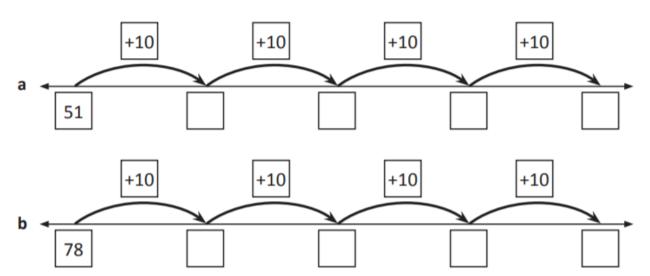


Addition mental strategies – jump strategy

The jump strategy is when you use a number line to jump in tens and then ones.



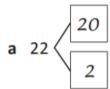
Practise jumping along the number line in tens:



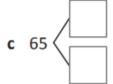
2 Add these using the jump strategy. Show your working on each number line:

When adding large numbers in our heads, it can be easier to split one of the numbers into parts and add each part separately.

Practise separating these numbers into tens and ones. The first one has been done for you.







Use the split strategy with these problems:

Addition mental strategies – word problems

Add	mon meniai strategies – word problems
	olve these word problems using either the jump or the split strategies. Show all our working.
а	Mitch and Anna held a lemonade stall over the weekend. They sold 25 cups on Saturday and 18 cups on Sunday. How many cups did they sell altogether?
b	I practised my guitar for 48 minutes before school and 34 minutes after school. How many minutes did I practise altogether?
	rlotte received £15 for her birthday from her grandmother. She added this er savings account which has £53. How much does Charlotte have now?

Subtraction mental strategies – identify patterns

Recognising patterns in subtraction is useful in extending known facts. Can you see the pattern in this set of facts?

$$17 - 3 = 14$$

$$37 - 3 = 34$$

$$27 - 3 = 24$$

$$47 - 3 = 44$$

1 Extend each set of subtraction patterns in the sets below and then shade the answers on this grid:

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

a Set 1

b Set 2

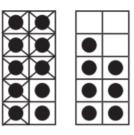
c Set 3

Subtraction mental strategies – bridge to ten

A ten frame is useful to show the bridge to ten strategy when subtracting.

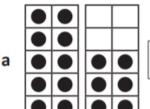
Here are 17 counters in 2 tens frames.

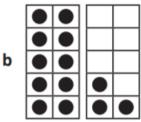
When you see 17 - 8 = ?, cross out 8 from the first ten frame then add what is left.

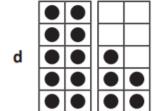


$$17 - 8 = 9$$

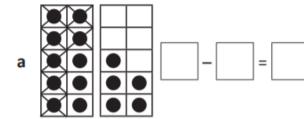
Use each ten frame to subtract using bridge to ten. Cross out the number of counters that are subtracted from the first ten frame:

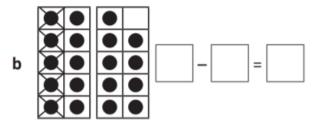


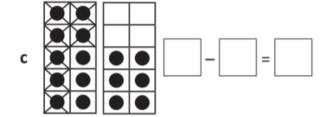


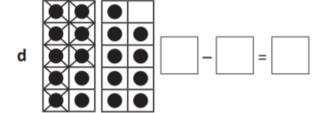


Write a subtraction fact that matches each ten frame:





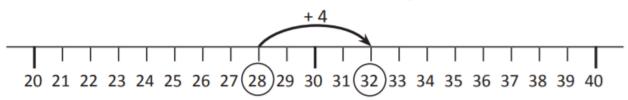




Subtraction mental strategies – counting on

If there is only a small difference between the numbers, use counting on to find the difference. See: 32 - 28 = ?

Think: What can you add to 28 to get 32? Count on by 4.



1 Find the difference between these by counting on.

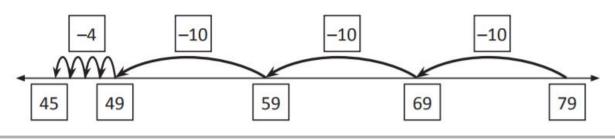
As long as you know addition doubles, you will know subtraction doubles.

$$5 + 5 = 10$$
 so $10 - 5 = 5$

Answer the addition doubles and write a matching subtraction double.

Subtraction mental strategies – jump strategy

The jump strategy is when you use a number line to jump in tens and then ones. Look at 79 - 34. First we jump back in tens and then ones. So, 79 - 34 = 45.



Subtract these using the jump strategy:





Subtraction mental strategies – split strategy

The split strategy is where we make the subtraction easy by splitting the second number into tens and ones. We then subtract each part separately.

Practise subtracting tens from these numbers:

-	10	30	20	30	50
96					
71					

2 Use the split strategy with these problems:



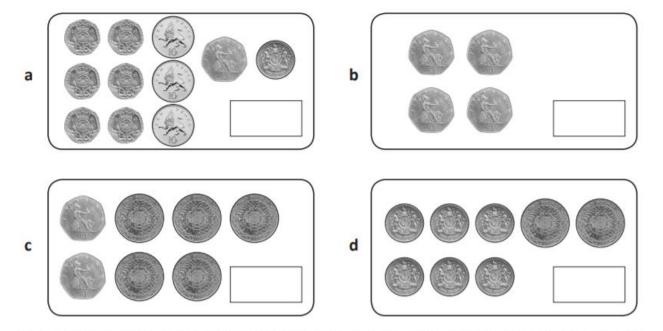
Money – coin combinations

It is important to be able to recognise coins and add different combinations quickly.

Label each of these coins:



2 Add each amount of coins:



Show £10 using a combination of all the coins in question 1.