

# Key Stage 1 Maths

Term 3 Week 1 Thursday

Addition and Subtraction

07.01.2021

## LI: To add 2 numbers

### Steps to Success

- I can add single numbers up to 10.
- I solve number problems involving the addition of single digit numbers. (Level 1)
- I add 1 and 2 digit numbers to 20, including 0. (Level 2)
- I can solve problems with addition, applying increasing knowledge of written methods and mental methods. (Level 3)

# Doubling up

Say what you see...

$1 + 1 = 2$

$2 + 2 = 4$

$3 + 3 = 6$

$4 + 4 = 8$

$5 + 5 = 10$

$10 + 10 = 20$

$20 + 20 = 40$

$30 + 30 = 60$

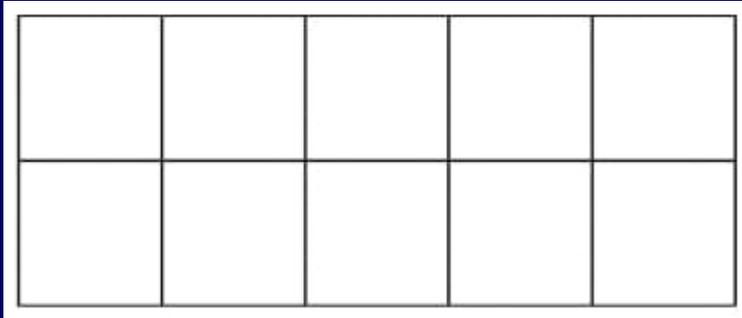
$40 + 40 = 80$

$50 + 50 = 100$

Note: This warm up is about spotting patterns.

There are a few, from numbers going up in 1s, the answers following the multiples of 2, numbers going up on 10s, answers rising by 20 each time, and the second row being like the first, except for it being a tens.

# Add by making 10 first.



Tens frame

**Rainbow to 10**

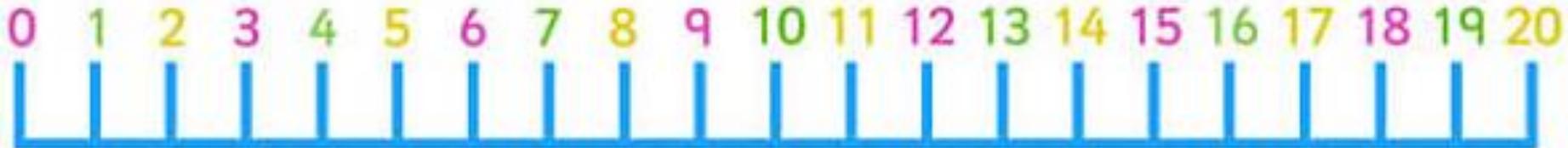


0 1 2 3 4 5 10 5 6 7 8 9 10

$0 + 10 = 10$	$10 + 0 = 10$
$1 + 9 = 10$	$9 + 1 = 10$
$2 + 8 = 10$	$8 + 2 = 10$
$3 + 7 = 10$	$7 + 3 = 10$
$4 + 6 = 10$	$6 + 4 = 10$
$5 + 5 = 10$	$5 + 5 = 10$

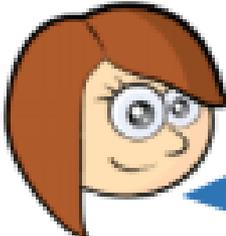
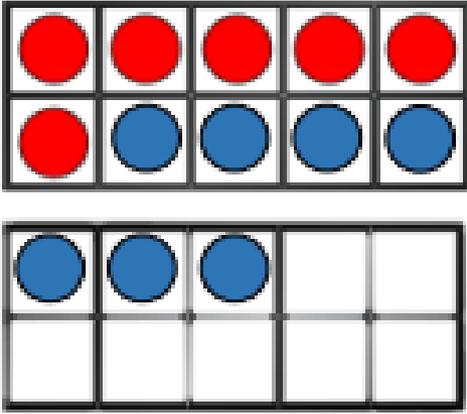
Number line

Number bonds to 10



Rosie has used the tens frames to work out

$$6 + 7$$



I partitioned the 7 into 4 and 3 so that I could make a full 10

She has 6 red counters.

She has 7 blue counters. She used 4 of them to fill up 1 ten, then the other 3 were left to begin the new frame.

Note:

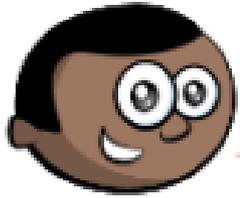
Partitioning is when you split a number into its number bonds.

In this case, 7 has been partitioned so the tens frame can be completed by using the number bond 6 and 4. The 3 left over begins a new frame.

When the children count, they don't need to count each counter in the first frame because they know that there are 10. They can count on, saying "10... 11, 12, 13."

Mo used a number line to work out

$$6 + 8$$

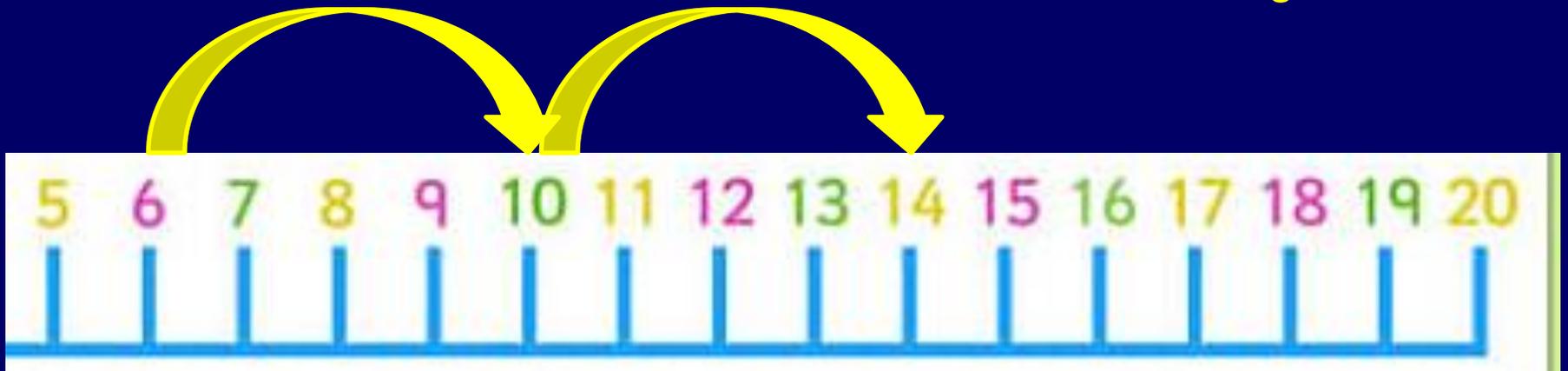


I partitioned 8 into 4 and 4 to make it easier.

$$6 + 8 = 14$$

or

$$6 + \underbrace{4 + 4}_{8} = 14$$



Add by making 10.



Choose the level sheet appropriate for your child.

Level 1 mainly uses numbers up to 10.

Level 2 uses numbers up to 20, and greater explanation is needed.

Level 3 uses more mental arithmetic, application and wider written methods.

They should be secure with their number bonds to 10 and 20.

07.01.2021 Level 1

LI: To add 2 numbers.

Steps to success:

- I can solve number problems by adding numbers up to 10. (Level 1)
- I can solve number problems by adding 1 and 2 digit numbers. (Level 2)
- I solve number problems with addition by writing the sums in different ways. (Level 3)

💡 Reasoning and problem solving: can you explain your answers?

Solve the addition problems by using the tens frame. Use two different counters to represent the counters. Please then just add a note to the sheets with the completed sums to say how they got on.

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1. $8 + 5 =$	2. $7 + 5 =$
3. $6 + 7 =$	4. $8 + 7 =$
5. $4 + 11 =$	6. $5 + 14 =$

This time, use a number line. Remember to make 10 first.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

7. $8 + 8 =$	8. $7 + 9 =$
9. $6 + 8 =$	10. $5 + 8 =$
11. $6 + 10 =$	12. $6 + 12 =$

07.01.2021 Level 2

LI: To add 2 numbers.

Steps to success:

- I can solve number problems by adding numbers up to 10. (Level 1)
- I can solve number problems by adding 1 and 2 digit numbers. (Level 2)
- I solve number problems with addition by writing the sums in different ways. (Level 3)

💡 Reasoning and problem solving: can you explain your answers?

Solve the addition problems by using the tens frame. Use two different counters to represent the counters. Please then just add a note to the sheets with the completed sums to say how they got on.

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1. $6 + 7 =$	2. $16 + 7 =$
3. $10 + 11 =$	4. $13 + 11 =$
5. $16 + 15 =$	6. $12 + 15 =$
7. $14 + 13 =$	8. $11 + 18 =$
9. $6 + \square = 15$	10. $16 + \square = 24$

2 23 24 25 26 27 28 29 30

8 =	
12 =	
+ 7 =	
+ 15 =	
+ 13 =	

21. $14 + 15 =$	22. $13 + 15 =$
23. $6 + \square = 13$	24. $15 + \square = 27$

Level 3, see next page.

Choose the level sheet appropriate for your child.

Level 1 mainly uses problems by adding numbers up to 10.

Level 2 uses numbers up to 20, and greater explanation is needed.

Level 3 uses more mental arithmetic, application and wider written methods.

They should be secure with their number bonds to 10 and 20.

07.01.2021 Level 3

**Steps to success:**

- o I can solve number problems by adding numbers up to 10. (Level 1)
- o I can solve number problems by adding 1 and 2 digit numbers. (Level 2)
- o I solve number problems with addition by writing the sums in different ways. (Level 3)

**Reasoning and problem solving: can you explain your answers?**

**Always** add the ones column first.  
The first set you should try to do in your head.  
You should spend up to 40 minutes on maths daily so, if it's taking longer, take a break and continue on Friday.

1)	Tens	Ones	2)	Tens	Ones	3)	Tens	Ones	4)	Tens	Ones
		4			2			5			3
		+			+			+			+
		5			8			3			6
5)	Tens	Ones	6)	Tens	Ones	7)	Tens	Ones	8)	Tens	Ones
		3 0			6 0			4 0			3 0
		+			+			+			+
		1 0			1 0			2 0			5 0
If you can, try to do these in your head too. Remember to do the ones column first... <b>ALWAYS!</b>											
9)	Tens	Ones	10)	Tens	Ones	11)	Tens	Ones	12)	Tens	Ones
		2 1			5 3			4 5			7 2
		+			+			+			+
		3 0			2 0			4 0			2 0
13)	Tens	Ones	14)	Tens	Ones	15)	Tens	Ones	16)	Tens	Ones
		4 0			3 0			6 0			2 0
		+			+			+			+
		1 8			3 4			2 1			6 5

17)	Tens	Ones	18)	Tens	Ones	19)	Tens	Ones	20)	Tens	Ones
		1 1			2 2			3 2			2 5
		+			+			+			+
		1 5			1 5			1 6			2 4
21)	Tens	Ones	22)	Tens	Ones	23)	Tens	Ones	24)	Tens	Ones
		3 6			4 3			2 6			3 0
		+			+			+			+
		1 1			2 3			1 3			1 4
25)	Tens	Ones	26)	Tens	Ones	27)	Tens	Ones	28)	Tens	Ones
		1 6			6 2			5 3			4 6
		+			+			+			+
		2 1			3 2			4 5			4 2
29)	Tens	Ones	30)	Tens	Ones	31)	Tens	Ones	32)	Tens	Ones
		4 4			1 6			2 4			1 7
		+			+			+			+
		3 4			7 2			4			2
33)	Tens	Ones	34)	Tens	Ones	35)	Tens	Ones	36)	Tens	Ones
		6			6			5 5			
		+			+			+			+
		4 3			3 2						1 6
		6 9			6 6			7 8			9 7

Level 3:

This allows the children to practise column addition that they began on Wednesday.

It works through all the different levels so that they are ready to use column addition with an exchange (carrying).

It is important that they do this step is secure before exchanging.