Year 2 Addition and Subtraction Knowledge Organiser

Maths

Number bonds to 10

0 + 10 = 10

1 + 9 = 10

2 + 8 = 10

3 + 7 = 10

4 + 6 = 10

5 + 5 = 10

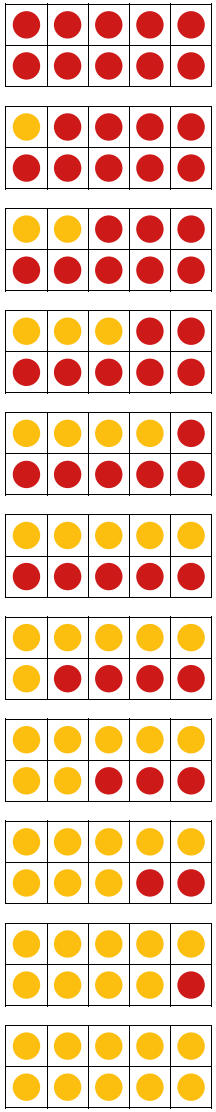
6 + 4 = 10

7 + 3 = 10

8 + 2 = 10

9 + 1 = 10

10 + 0 = 10

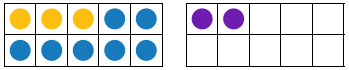


Addition

Add three 1-digit numbers

We can look for a **bond to 10** to add together first, and then add the third number.

3 + 7 + 2 = 12



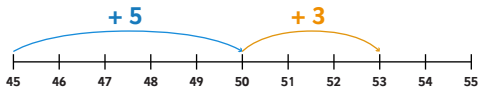
3 and 7 are a bond to 10
10 + 2 = 12
So 3 + 7 + 2 = 12

Add across a 10

When adding **across a 10**, we can add to the **next 10** and then add on the remainder.

45 + 8 = 53

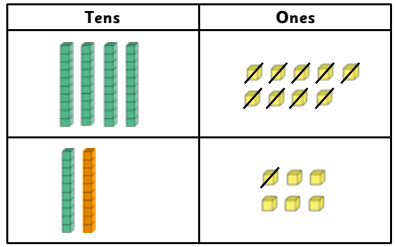
5 3



Add two 2-digit numbers

We can **exchange 10 ones** for **1 ten** when adding across a 10.

49 + 16 = 65

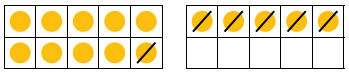


Subtraction

Subtract across a 10

We can use **tens frames** to help us **subtract across a 10**.

15 - 6 = 9

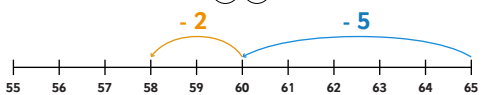


Subtract a 1-digit number from a 2-digit number

We can use **partitioning** to subtract a 1-digit number from a 2-digit **across a 10**.

65 - 7 = 58

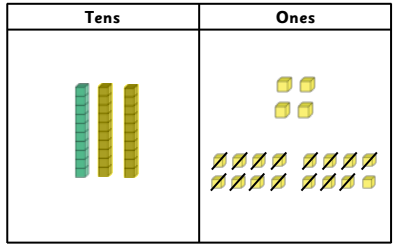
5 2



Subtract two 2-digit numbers

We can **exchange 10 ones** for **1 ten** when subtracting across a 10.

34 - 19 = 15



Bonds to 100

0 + 100 = 100

10 + 90 = 100

20 + 80 = 100

30 + 70 = 100

40 + 60 = 100

50 + 50 = 100

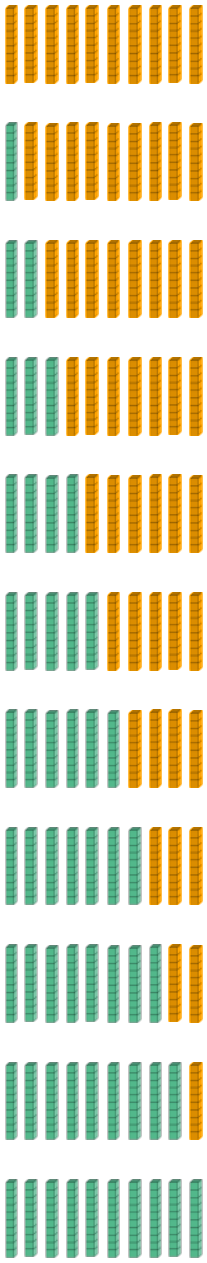
60 + 40 = 100

70 + 30 = 100

80 + 20 = 100

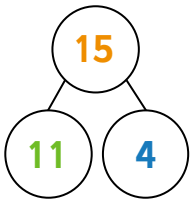
90 + 10 = 100

100 + 0 = 100



Fact families

We can use a **part-whole model** to help us write ***fact families.***



part + part = whole

part + part = whole

whole - part = part

whole - part = part

11 + 4 = 15

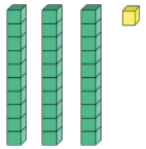
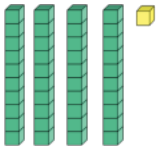
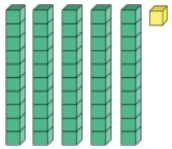
4 + 11 = 15

15 - 11 = 4

15 - 4 = 11

10 more, 10 less

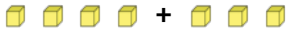
We can use **dienes** to help us fine **10 more** or **10 less.**

10 less	Number	10 more
		
31	41	51

Only the **digit** in the **tens column** will change.

Related facts

We can use **addition** and **subtraction** facts to find the answers to larger calculations.

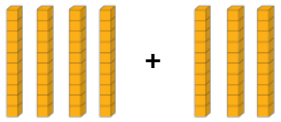


4 ones + 3 ones = 7 ones

4 + 3 = 7

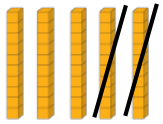
5 ones - 2 ones = 3 ones

5 - 2 = 3



4 tens + 3 tens = 7 tens

40 + 30 = 70



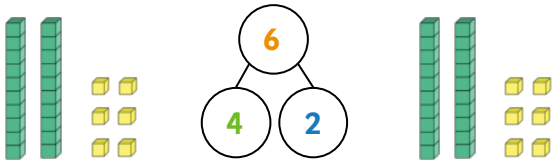
5 tens – 2 tens = 3 tens

50 - 20 = 30

Missing number problems

We can use **partitioning** to help us find the answer to **missing number problems**.

20 + 6 = 24 + 2



6 can be partitioned into **4** and **2**

20 + **6** = **20** + **4** + **2**