Maths

Week 8 Number

Session 1- Starter

What do the following signs mean? Can you remember?

<	>	=
Less than	More than	Equal to

Starter

<

Less than

>

More than

=

Equal to

Answer the questions

Remember the crocodile always wants to eat the bigger number!!

A- 3	☐	1
B- 2	☐	4
C- 2	☐	5
D- 7	☐	4
E – 9	☐	1
F- 3	☐	2
G- 9	☐	3
H – 7	☐	7
I – 8	☐	5

Starter

<
Less than

>
More than

=
Equal to

Remember the crocodile always wants to eat the bigger number!!

A- 3 > 1

B- 2 < 4

C- 2 < 5

D- 7 > 4

E – 9 > 1

F- 3 > 2

G- 9 > 3

H – 7 = 7

I – 8 > 5

Main

<   >   =

12+5 [   ] 15

How would you solve this question?

<   >   =

Step 1
Add the numbers together:

12+ 5= 17

12+5 [   ] 15

<   >   =

Step 2
Add the correct symbol

(remember the crocodile wants to eat the bigger number!)

17   > 15

<   >   =

11+6 [ ] 14

12+ 8 [ ] 13

20 [ ] 14 +7

Try these questions

<   >   =

11+6 > 14

12+ 8 > 13

20 < 14 +7

Try these questions

<   >   =

12+6 ☐ 11+5

Now try this question?

<

>

=

Step 1
Add the numbers together:

12+ 6= 18

12+6

11+5

<   >   =

Step 2
Add the numbers
together:

11 + 5= 16

18   [ ]11+5

<   >   =

Step 3
Add the correct symbol

(remember the crocodile wants to eat the bigger number!)

18   >   16

Try these!

Put the correct sign (<, > or =) between these numbers. Remember – the crocodile always eats the bigger number!

12+3	**<**	**13+5**
43+10	**>**	**2+27**
36+3	**>**	**24+11**
0+11	**=**	**9+2**
46+3	**>**	**32+12**
18+18	**<**	**56+6**
2+22	**>**	**10+12**

Choose a level to complete

Green			Yellow			Red		
A- 3+2	☐	1+6	A- 13+21	☐	21	A- 34+21	☐	41+67
B − 2+1	☐	1+ 4	B − 23+1	☐	24	B − 62+21	☐	10+ 34
C- 2+1	☐	5+ 0	C- 22+1	☐	30	C- 21+11	☐	25+60
D − 7+1	☐	9+4	D − 17+1	☐	29	D −17+12	☐	9+40
E − 9+1	☐	2+1	E − 12+1	☐	21	E − 90+1	☐	28+11
F- 3+2	☐	8+2	F- 43+2	☐	82	F-32+21	☐	82
G − 9+1	☐	6+3	G − 26+1	☐	63	G −92+1	☐	61+8
H − 7+7	☐	6+7	H − 54+5	☐	67	H −70+7	☐	60+17
I − 8+7	☐	5+3	I − 38+21	☐	53	I −81+71	☐	65+3

Plenary-

What calculations can you come up with using only these numbers:

4   9   5

Session 2

Starter

Think about the method you would use.

5+8=	8-5=
7+3=	12-6=
9+12=	28-12=
15+23=	34-12=
18+19=	70-32=

Starter

5+8= 13

7+3= 10

9+12= 21

15+23= 38

18+19= 37

8-5= 3

12-6= 6

28-12= 16

34-12= 22

70-32= 38

Main

3   5   8

What calculations can you make with these numbers?

Think about addition and subtraction.

(hint: when thinking about subtraction, remember the biggest number will always be first)

3   5   8

3 + 5 = 8
5 + 3 = 8
8 - 3 = 5
8 - 5 = 3

3 GOLDEN RULES

1. Always use the same 3 numbers.

2. Subtraction starts with the biggest number.

3. Addition ends with the biggest number.

8   7   15

Now try with these numbers:

__ +__ = _

__ +__ = _

__ -__ = _

__ -__ = _

8   7   15

Now try with these numbers:

$8 + 7 = 15$

What do you notice?

$7 + 8 = 15$

Some of the numbers just switch around!

$15 - 8 = 7$

$15 - 7 = 8$

23   55   22

Now try with these numbers:

__ + __ = _
__ + __ = _
__ - __ = _
__ - __ = _

23   55   22

Now try with these numbers:
23 +22 = 55
22 +23 = 55
55 -23 = 22
55 -22 = 23

Addition and Subtraction Fact Families to 10

For each set of numbers, write four different addition and subtraction facts.
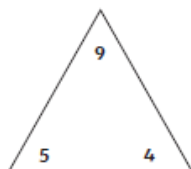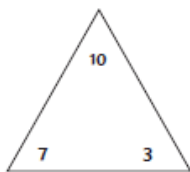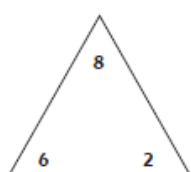
Addition and Subtraction Fact Families to 20

For each set of numbers, write four different addition and subtraction facts.
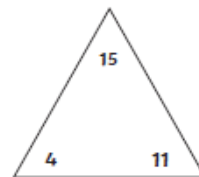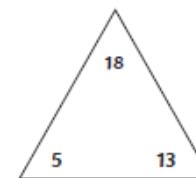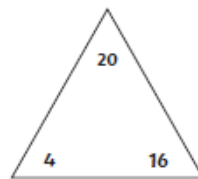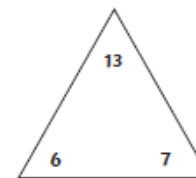
Complete the sheet that looks like this.

Choose the level you feel comfortable with.

Session 3

What does 'the inverse' mean?

Inverse means opposite.

So what is the inverse of addition?

What is the inverse of subtraction?

How would you solve the following problem?
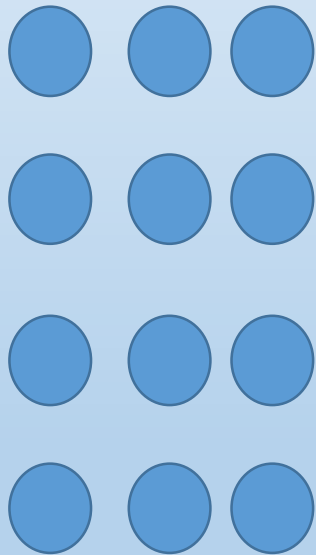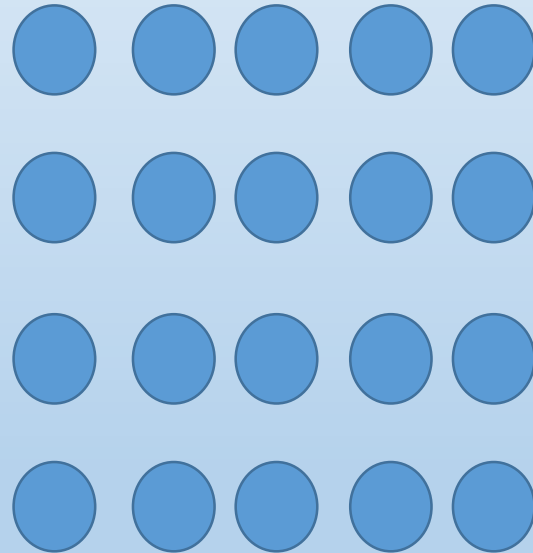
12 + ____ =20

How would you solve the following problem?
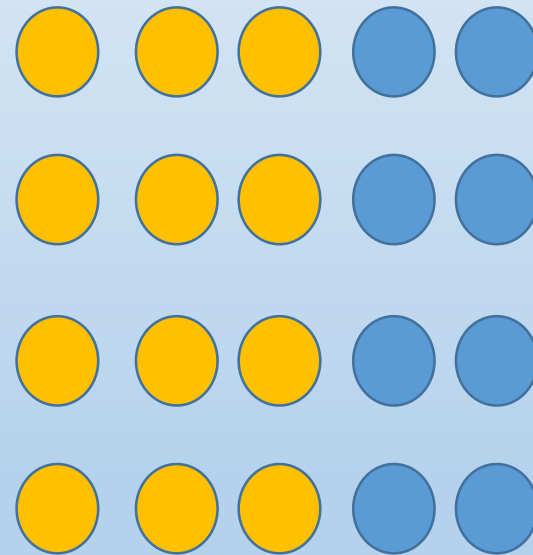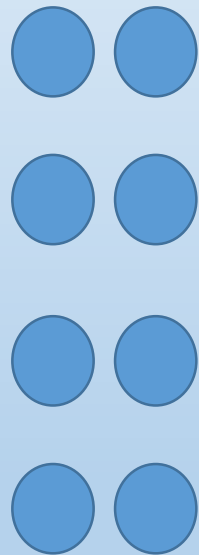
12 + ___ =20

+

?
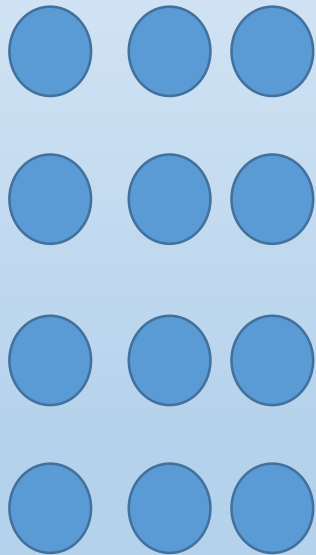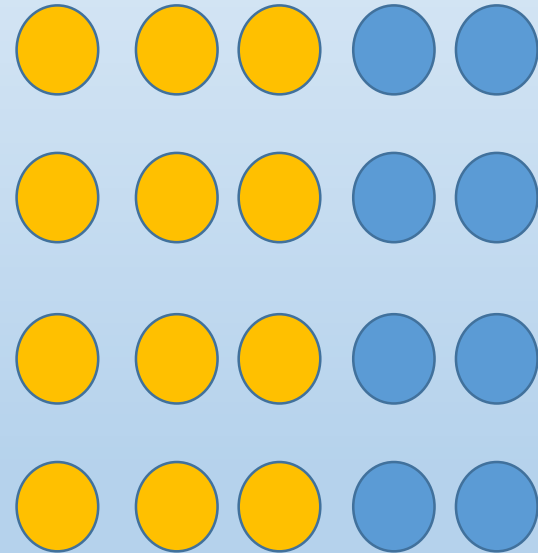
How many left?

You can also count on in your head!

How would you solve the following problem?

12 + 8 =20

+
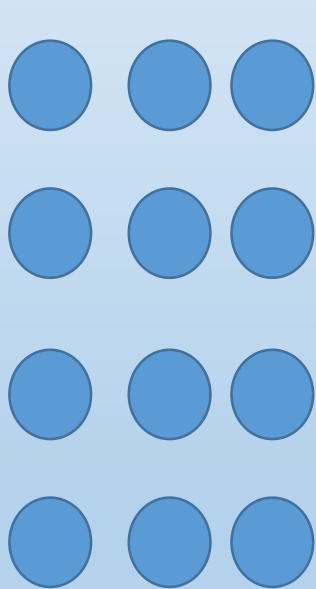
How many left?

How would you solve the following problem?
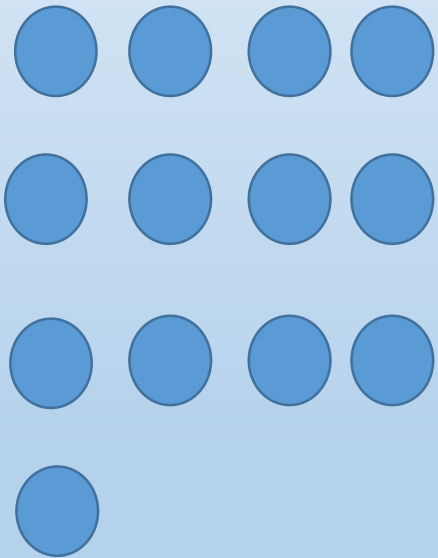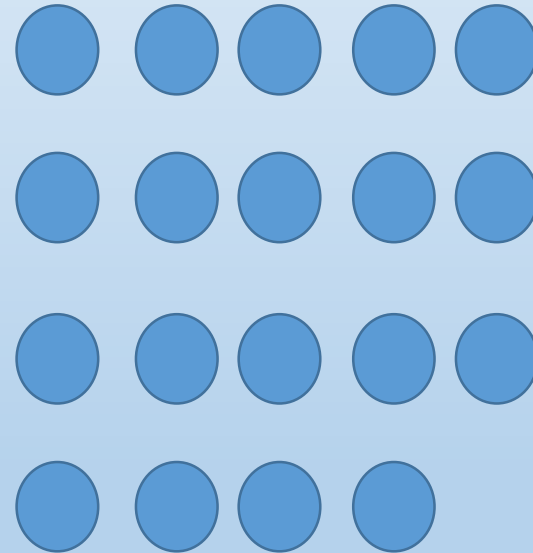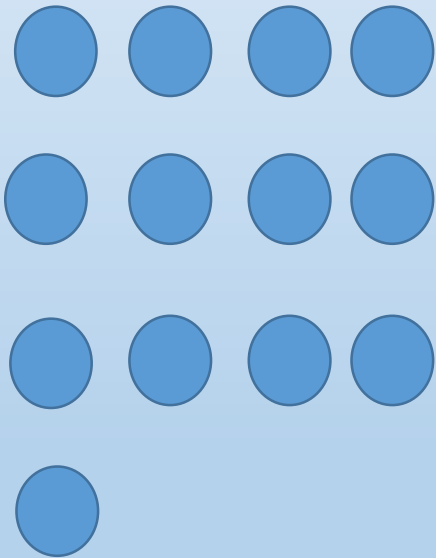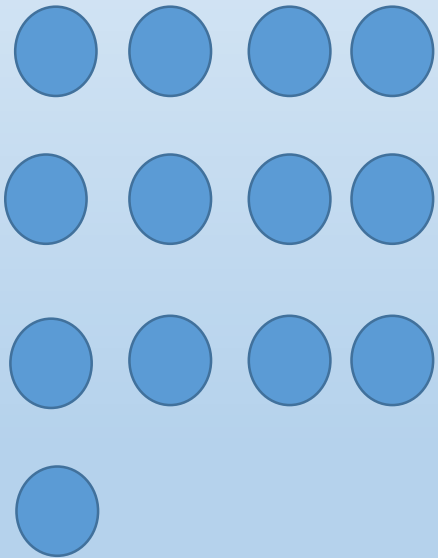
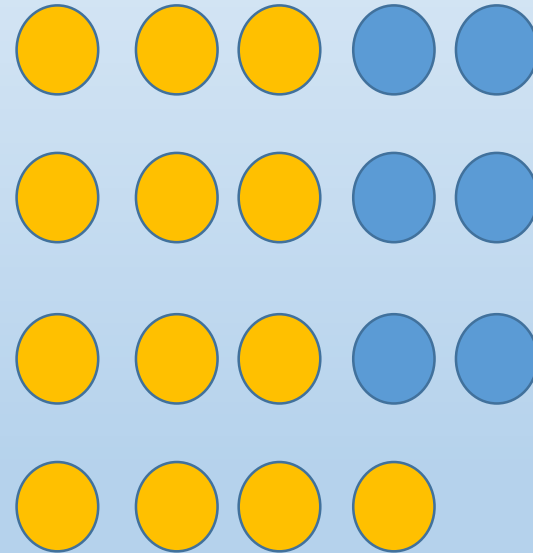13 + ___ =19

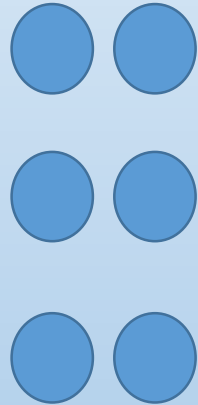# How would you solve the following problem?

13 + ___ =19
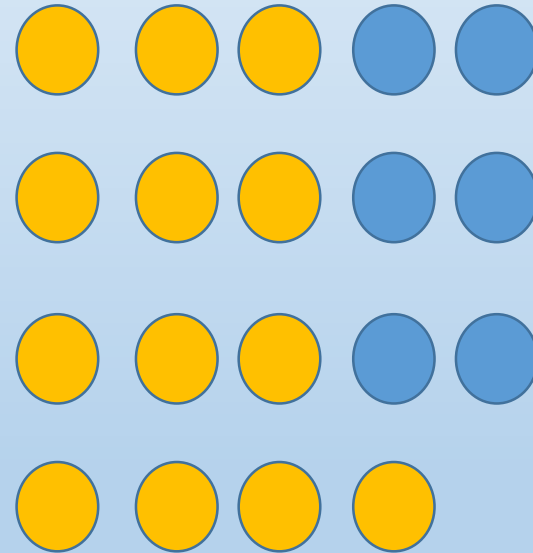
How would you solve the following problem?

13 + 6 =19

+

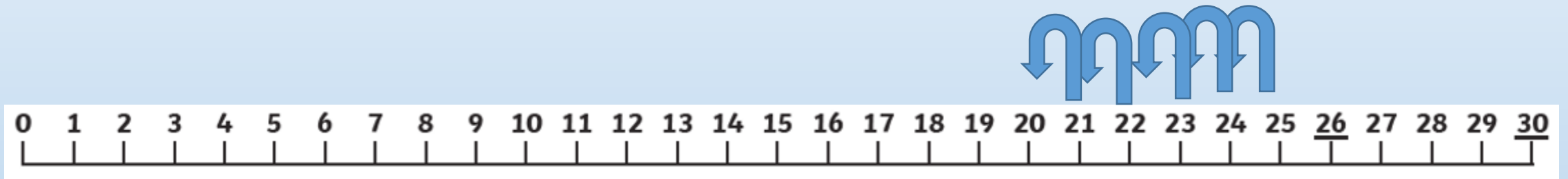$$4 + \boxed{} = 30$$
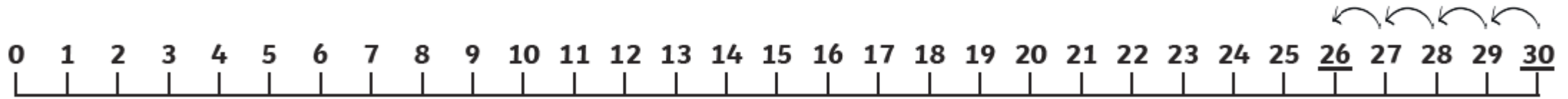
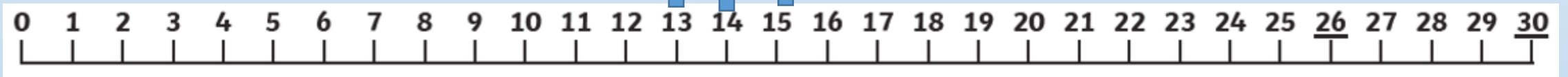Sometimes it helps to count backwards also and use the inverse.

Try this:

5 + ___ = 25

Remember to count the jumps!

5 + 20 = 25

Try this:

6 + ___ = 17

Remember to count the jumps!

6 + 11 = 17

Task- With a partner, can you solve the missing number problems?

1. $2 + \boxed{} = 13$

2. $4 + \boxed{} = 10$

3. $7 + \boxed{} = 11$

4. $3 + \boxed{} = 15$

5. $8 + \boxed{} = 17$

6. $1 + \boxed{} = 10$

7. $12 + \boxed{} = 13$

8. $11 + \boxed{} = 11$

9. $9 + \boxed{} = 20$

10. $7 + \boxed{} = 20$

11. $15 + \boxed{} = 19$

12. $14 + \boxed{} = 17$

13. $2 + \boxed{} = 20$

14. $6 + \boxed{} = 16$

15. $18 + \boxed{} = 20$

16. $11 + \boxed{} = 17$

17. $13 + \boxed{} = 18$

18. $9 + \boxed{} = 18$

19. $4 + \boxed{} = 15$

20. $1 + \boxed{} = 20$

Plenary

Another way we can solve missing number problems is by thinking about the inverse:

$42 + ? = 50$

$S + S = B$

$50 - 42 = 8$

Plenary

? + 23 = 34

S + S = B

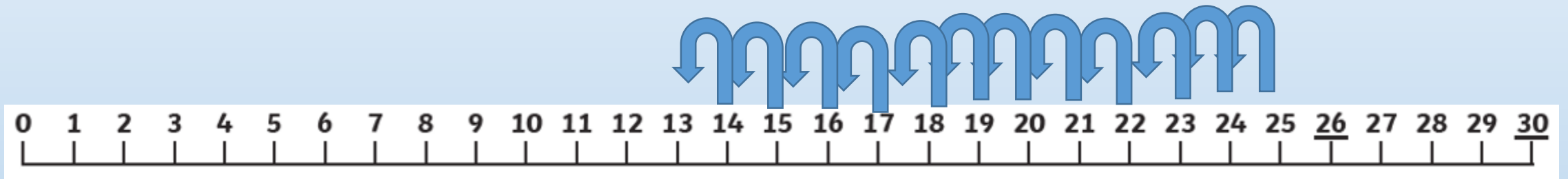34 − 23 = 11

Session 4

Remember the following:

S + S = B

B - S = S

How could we solve the following problem:

18 + ? = 32

Try this:
12 + ___ = 25

Remember to count the jumps!
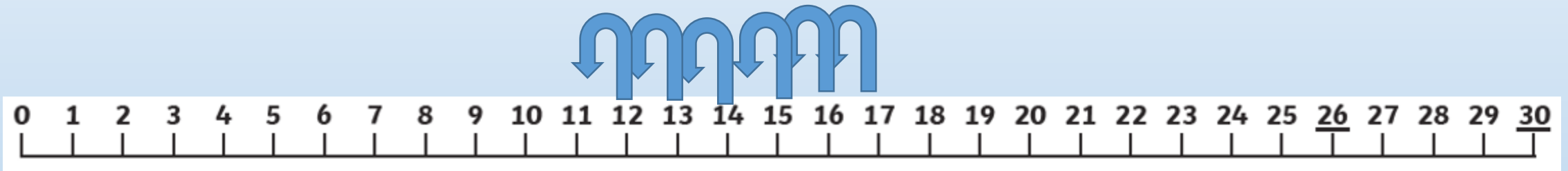
12 + 13 = 25

Try this:
6 + ___ = 17

Remember to count the jumps!

6 + 11 = 17

28 + ___ = 42

S + S = B

How can we work out the mystery number?

It's a smaller number missing so we need to take away.

Check your answer!!

42- 28 =

Does 28 + 14 =42?

14

___ + 43 = 67

S + S = B

How can we work out the mystery number?

It's a smaller number missing so we need to take away.

67- 43 =

24

Check your answer!!

Does 24 + 43 = 67?

Your turn

41 + ___ = 65

___ + 37 = 59

Task

Complete the sheet. Are you able to be a superhero and find the missing numbers.

Session 5

Complete the Now Press Play Number Bonds lesson.

Worksheet to be completed alongside it.