



Maths

Addition and Subtraction

Need a coherently planned sequence of lessons to complement this resource?

A large white rectangular area for writing or drawing, framed by a dark blue border. This area is currently blank, intended for a response to the question above.

Add Two 2-Digit Numbers, Not Crossing 10



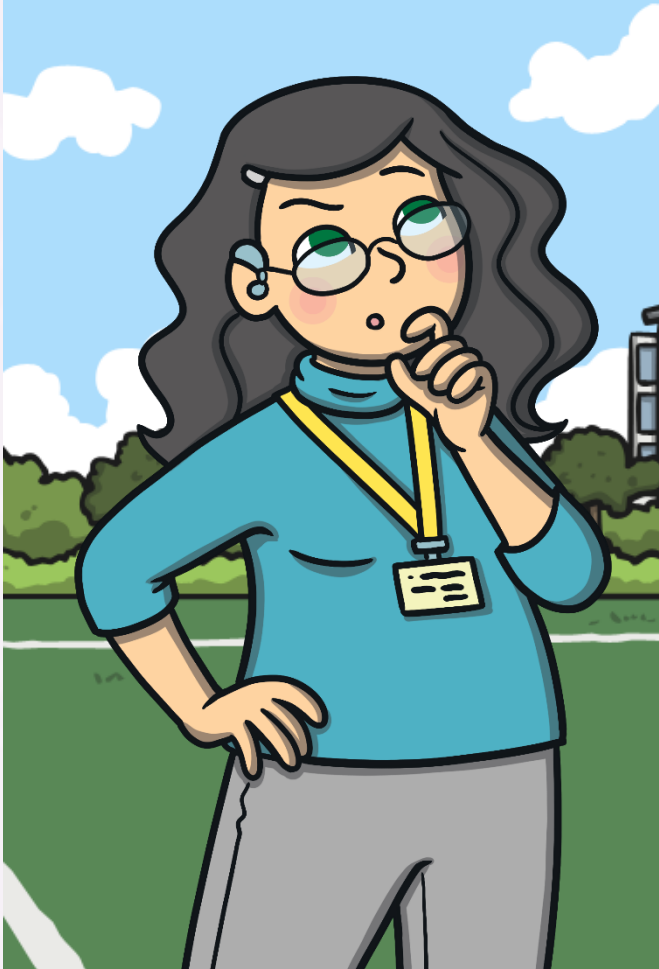
Aim

- To add two 2-digit numbers by adding the ones (not crossing 10) and the tens.

Success Criteria

- I can add ones not crossing ten.
- I can use number facts to add two 2-digit numbers.
- I can use a number line to add two 2-digit numbers.

Remember It

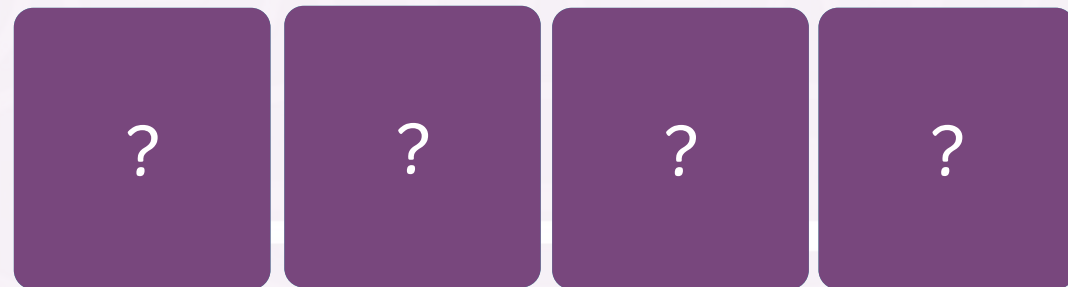
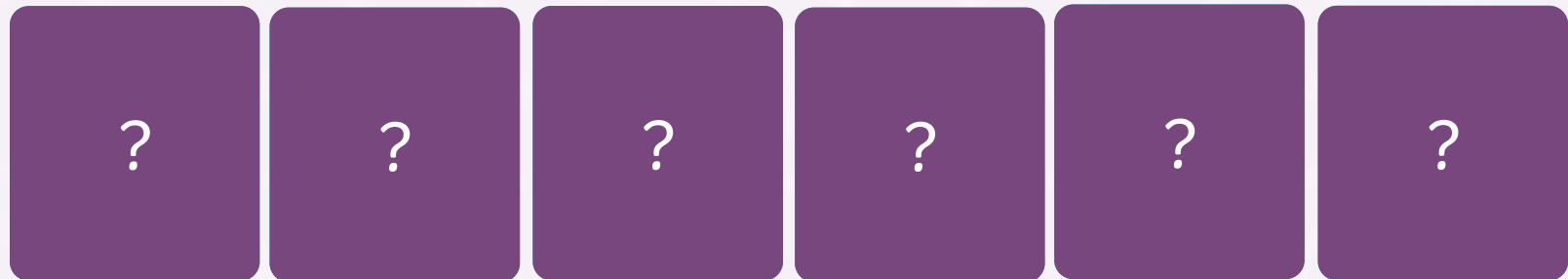


The team have played a lot of games. They have put their scores on cards. They need exactly 20 points to win the competition.

In your class teams, take turns to pick a card until each team has 2 cards. Add the numbers on the 2 cards. The team with the closest value to 20 wins a point.

Play the game again. Now you know where some of the cards are, can you get closer? Can you use your turn to block the other teams?

Remember It



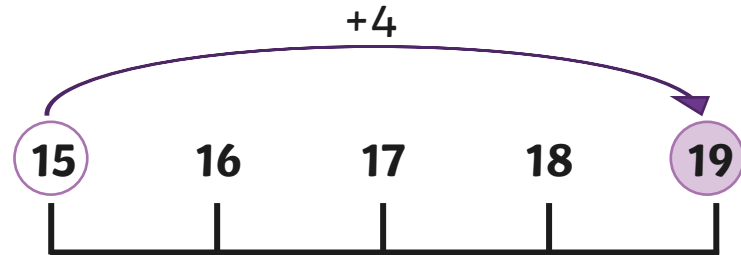
How Would You Add?



I scored these points. Can you help me find the total?



Put the number with the greatest value in your head so there are fewer steps to count on.



Which number would you put first in a calculation?

$$\boxed{?} + \boxed{?} = 19$$

Can you explain why?

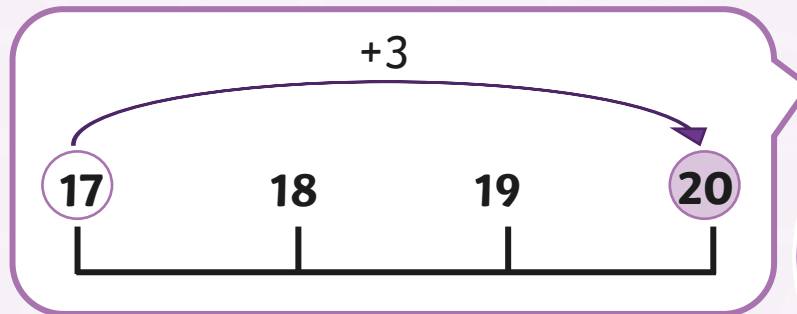


How Would You Add?



I scored these points. Can you help me find the total?

Put the number with the greatest value in your head so there are fewer steps to count on.



Which number would you put first in a calculation?

$$\boxed{?} + \boxed{?} = 20$$

Can you explain why?



What if I scored 2 and 17 points?

Scoring Points



Amia throws two beanbags which land in different hoops. She scores the highest possible score.

What did she score?

24

31

43

Scoring Points



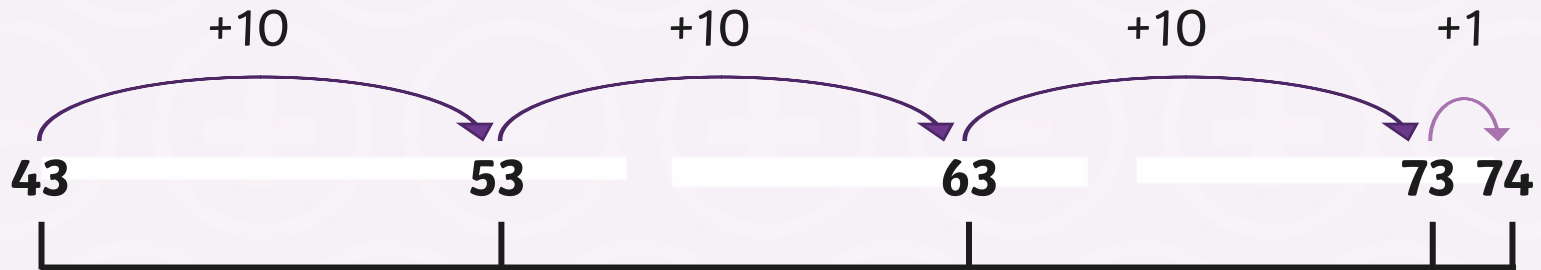
$$43 + 31 = 74$$

Amia uses an empty number line to work out her score.



I need to add 31 and 43.

Start with the greatest number.
Count on in tens then ones.



Scoring Points



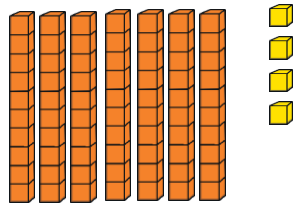
Ben and Phil can check Amia's total by using number facts that they know.



$$43 + 31 = 74$$

Let's put the tens and the ones together.

$$70 + 4 = 74$$



I'll add the ones.

$$3 + 1 = 4$$



Scoring Points



Ben throws two beanbags into different hoops and scores the lowest possible score.

What did he score?

24

31

43

Scoring Points



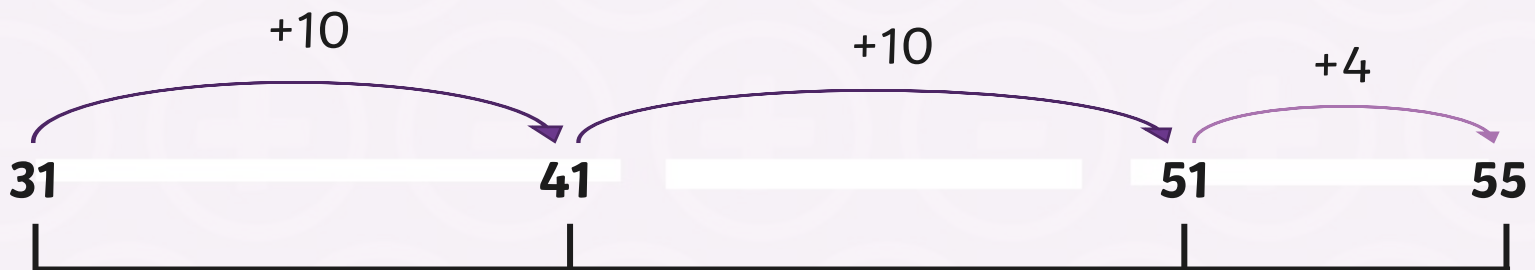
$$31 + 24 = 55$$

Ben uses an empty number line to find his score.



I need to add 24 and 31.

Start with the greatest number.
Count on in tens then ones.



Scoring Points



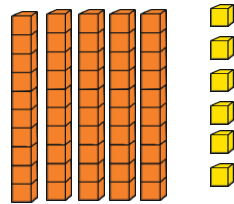
Amia and Phil can check Ben's total by using number facts that they know.

$$32 + 24 = 56$$



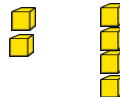
Let's put the tens and the ones together.

$$50 + 6 = 56$$



I'll add the ones.

$$2 + 4 = 6$$



Scoring Points



Phil's score is the closest score to 70.

What did he score?

24

31

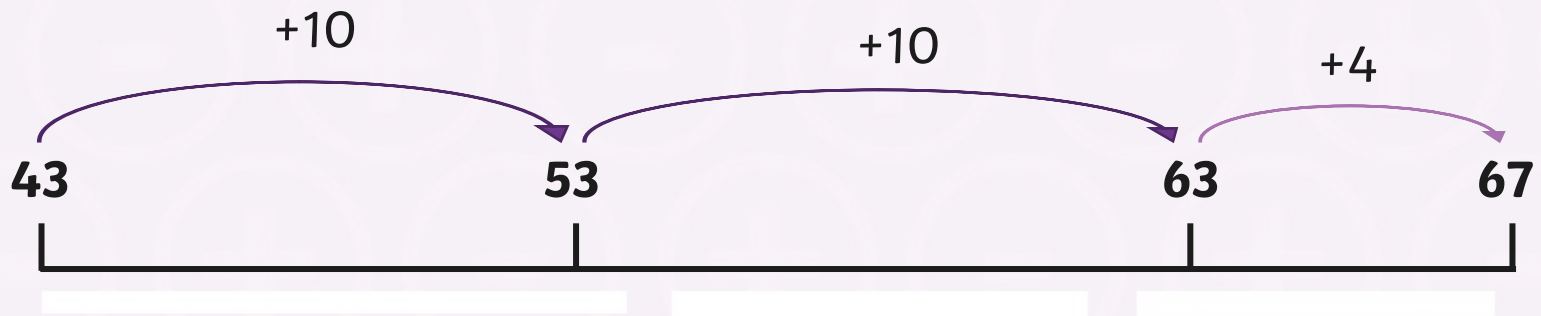
43

What will you do to check your answer?

Scoring Points



$$43 + 24 = 67$$



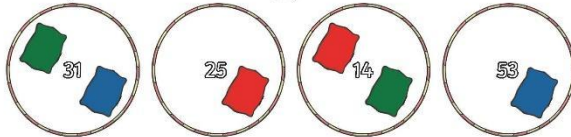
Scoring Points Activity



Scoring Points

To add two 2-digit numbers by adding the ones (not crossing 10) and the tens. ○○○

Each friend threw 2 beanbags into the hoops. What are their scores? Use number facts or number lines to help you.



Amia

I threw the red beanbags.



Phil

I threw the green beanbags.



Ben

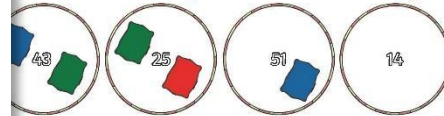
I threw the blue beanbags.

How many different scores could you make by throwing 2 beanbags into different hoops?

Scoring Points

Numbers by adding the ones (not crossing 10) and the tens. ○○○

2 beanbags into 2 different hoops. They each got different scores? Use number facts or number lines to help you.



Amia

I threw the red beanbags.

Phil

I threw the green beanbags.

Ben

I threw the blue beanbags.

How many different scores could you make by throwing 2 beanbags in different hoops? Order the totals from the lowest to the highest total?

Scoring Points

To add two 2-digit numbers by adding the ones (not crossing 10) and the tens. ○○○

2 beanbags into 2 different hoops. They each got different scores? Use number facts or number lines to help you.



Amia

I threw the red beanbags.

Phil

I threw the green beanbags.

Ben

I threw the blue beanbags.

How many different scores could you make by throwing 2 beanbags in the hoops? Order the totals from the highest to the lowest value?

Diving into Mastery


Dive in by completing your own activity!



Add Two 2-Digit Numbers, Not Crossing Ten

The friends played 2 games each.

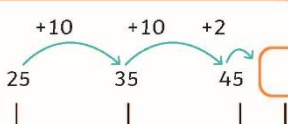
What did they each score in total?


 Ben

$25 + 22 = \square$

25 35 45

+10 +10 +2

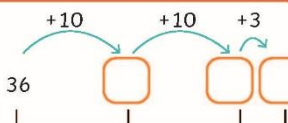



 Amia

$36 + 23 = \square$

36

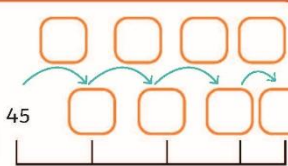
+10 +10 +3



 Phil

$45 + 34 = \square$

45



Now, use your number facts to solve these calculations:

$51 + 26 = \square$

$63 + 34 = \square$

One Hundred Square



Try adding 2-digit numbers using the 100 square.

Click the numbers to highlight which ones you are adding.

What do you notice?

Reset 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

Aim



- To add two 2-digit numbers by adding the ones (not crossing 10) and the tens.

Success Criteria

- I can add ones not crossing ten.
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- I can use a number line to add two 2-digit numbers.

