Add 2-Digit and 1-Digit Numbers Crossing 10 Adult Guidance with Question Prompts



Children add two-digit and one-digit numbers across ten. They build fluency by making number facts of ten, then adding the remaining part. Children use number lines to complete calculations.

Can you read the calculation?

Where should we start on the number line?

What has been added to make ten?

Five was partitioned into two parts.

We have used four, how many are in the other part? Make a jump with this number to find the total.

Compare the first calculation (6 + 5) with the next (16 + 5). What is the same? What is different? Where will you start on the number line? How far will you jump to reach the next ten? Have you finished the calculation? Can you explain why? How much more do you need to add? What total have you made? Compare this to the total you made by adding 6 + 5. Can you explain what has happened and why? Look at the calculations. Can you complete the first two then continue this number pattern? Can you describe the pattern to me? Can you use a number line to show me?

What would come next?



Add 2-Digit and 1-Digit Numbers Crossing 10 Adult Guidance with Question Prompts



Children add two-digit and one-digit numbers across ten. They make number facts of ten, then add the remaining part to find the total. Number lines are used to keep track of the calculations. The children apply their reasoning skills to check and correct calculations and statements. Children are invited to demonstrate strategies and explain their reasoning.

Forwards Fred and his friends have made facts of ten by partitioning the second number, then adding the other part.

Can you check the first calculation?

Can you spot any errors? What can he do to correct it?

What does Fred need to practise? (Number facts of ten, especially 8 + 2 = 10)

Read each speech bubble in turn and decide if they are true or false. How do you know?

Show me.

What if you didn't have a number line, can you find another way to prove it?

Can you make a true or false challenge for a friend?

Make sure the calculations add a two-digit and one-digit number crossing ten so that your friend can practise using a number line to make a fact of ten, then add the other part.

Add 2-Digit and 1-Digit Numbers Crossing 10



Make a true or false challenge for a friend.

Add 2-Digit and 1-Digit Numbers Crossing 10 Adult Guidance with Question Prompts



Children add two-digit and one-digit numbers across ten by making number facts of ten, then adding the remaining part to find the total. Number lines are used to model and check the steps of the calculations. The children apply their problem-solving skills to complete and create balancing calculations.

What is the same about both calculations?

What is different?

Do the two calculations make the same total? Can you explain how this is shown on the number line?

What does the equals symbol tell us?

(Both sides of the equals symbol should have the same value.)

The calculations on each side of the equal sign should make the

same total, but some of the numbers are missing.

What can you do to find the missing numbers?

Do you know a number fact that you could use?

Can you show me how you can use the number line to find the answer?

Look at one pair of calculations at a time.

What can you tell me about the value of each calculation?

Which number fact will help you?

How can you use a number line to find the answer?

Can you make a missing number challenge for your friend to solve? Make sure that the calculations add a two-digit and a one-digit number crossing a ten.



Prove that Frank is correct.

I know 4 +	5 =	9, so	16 + 9
is the same	as	16 +	4 + 5.

27 + 5 = 27 +

45 +

Frank

= 36 + 4 + 4

If 2 + 5 = **7**, then 18 + **7** = 18 +

What can you do to find the missing numbers?

Use number facts of ten to complete the calculations.

36 +

59

Make missing number challenges for your friend to solve.

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Bridging Ten Game

To add a one-digit number to a two-digit number, crossing ten.

Instructions

- Each player needs a number line.
- Start from the beginning of your number line.
- Spin the spinner and jump this many places.
- Write a number sentence above your jump.
- On your next turn, spin the spinner again and add this number to the number that you are already on.
- The first person to bridge each multiple of 10 scores a point.
- The winner is the player with the most points when you reach the end of the number line.





Bridging Ten Game: Number Lines

0 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

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 2	21 2	22 2	23 2	4 2	5 2	6 27	28	29	30	31	32	33	34	35	36	37	38	39	40

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Bridging Ten Game: Number Lines

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

20) 21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40 4	41 4	42 4	43 4	44 4	5 4	6 4	7 48	49	50	51	52	53	54	55	56	57 5	58	59	60
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Bridging Ten Game: Number Lines

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

35	36	37	7 38	83	94	04	14	24	34	4 4	54	64	74	+84	95	505	1 5	525	35	545	55	65	75	i 8 5	96	06	162	2 63	8 64	65	66	67	68	69	70) 71	72	73	74	75	76
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Answers





Answers

