

Read About Adding & Subtracting within 100

WHAT IS ADDING & SUBTRACTING WITHIN 100?

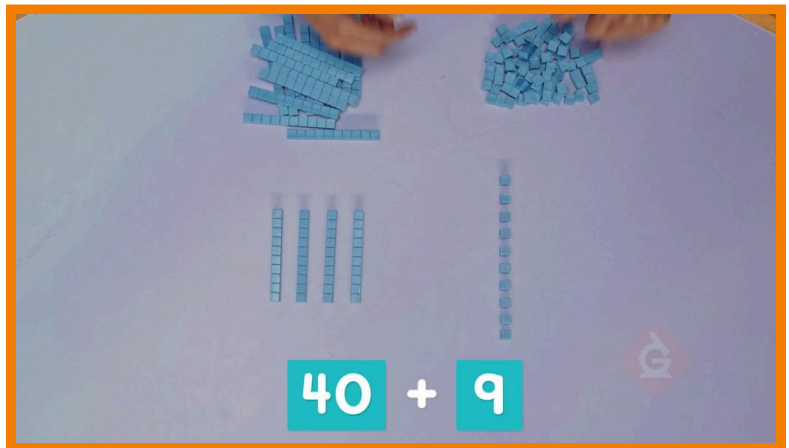
You can break apart a number using place value to help you add. 24 is 2 tens and 4 ones. $24 = 20 + 4$. When you break apart two numbers, you can add the tens then add the ones.

To better understand Adding & Subtracting within 100...

LET'S BREAK IT DOWN!

Place-Value Blocks

Place value is the value of a digit based on its position in a number. The 4 in 49 represents 4 tens. The 9 represents 9 ones. $49 = 40 + 9$. You can use place-value blocks to show 4 tens and 9 ones. Erika adds 1 more ones block to the pile. Now there are 10 ones. 10 ones is the same as 1 ten. Now there are 5 tens. 5 tens = 50. Try this one yourself: **How can you represent 68 with place-value blocks?**



Candy Apples

Erika has dipped 24 candy apples. Dane has dipped 35. How many candy apples have they dipped in all? Find $24 + 35$. 24 is 2 tens and 4 ones. 35 is 3 tens and 5 ones. Add the ones and add the tens. $20 + 30 = 50$. $4 + 5 = 9$. The total is $50 + 9 = 59$. Try this one yourself: **Erika has dipped 33 candy apples. Dane has dipped 41 candy apples. How many have they dipped in all?**



Flowers

There are 58 blue flowers and 37 red flowers. How many flowers are there in all? Find $58 + 37$. 58 is 5 tens and 8 ones. 37 is 3 tens and 7 ones. $50 + 30 = 80$. $8 + 7 = 15$. Altogether there are 8 tens and 15 ones. Regroup 10 ones as 1 ten. That makes 9 tens and 5 ones, or 95 in all. Try this one yourself: **There are 48 yellow flowers and 36 purple flowers. How many flowers are there in all?**



Plastic Bricks

Erika has 65 blocks. She gives Dane 41 blocks. How many blocks does Erika have left? Find $65 - 41$. 65 is 6 tens and 5 ones. 41 is 4 tens and 1 one. Subtract by place value. $60 - 40 = 20$. $5 - 1 = 4$. The answer is 2 tens and 4 ones, or 24. Erika has 24 bricks left. Try this one yourself: **Erika has 87 blocks. She gives Dane 35 blocks.**

How many blocks does Erika have left?



Ant Farm

Dane has 71 ants in his ant farm. He gives Erika 38 ants. How many ants does Dane have left? Find $71 - 38$. 71 is the same as $70 + 1$. 38 is the same as $30 + 8$. Try to subtract the ones. You can't take away 8 ones from 1 one. Regroup 1 ten in 71 as 10 ones. So $70 = 60 + 10$. Subtract the ones. $11 - 8 = 3$. Subtract the tens. $60 - 30 = 30$. The

difference is $30 + 3 = 33$. Dane has 33 ants left. Try this one yourself: **Dane has 82 worms. He gives Erika 49 worms. How many worms does Dane have left?**



ADD & SUBTRACT WITHIN 100 VOCABULARY

Place value

The value of a digit based on its location in a number.

Add

To bring two or more numbers (or things) together to make a new total.

Subtract

To take one number away from another.

Sum

The result of adding.

Difference

The result of subtracting.

Expanded Form

A form of a number that shows a number as the sum of the value of its digits. For example, $234 = 200 + 30 + 4$.

ADD & SUBTRACT WITHIN 100 DISCUSSION QUESTIONS

How can place value help you to add numbers?

I can break apart numbers by their place values, and then add the separate place values together. For example, $82 = 80 + 2$. $17 = 10 + 7$. $80 + 10 = 90$. $2 + 7 = 9$. The final sum is $90 + 9 = 99$.

When do you need to regroup when adding 2-digit numbers? How do you regroup?

I need to regroup if I add the ones and the number is 10 or greater. I regroup 10 ones as 1 ten.

Find $26 + 12$. Do you need to regroup?

$26 + 12 = 38$. $20 + 10 = 30$. $6 + 2 = 8$. There are only 8 ones, so I don't need to regroup.

When do you need to regroup when subtracting 2-digit numbers? How do you regroup?

I need to regroup if the number of ones I need to subtract is greater than the number of ones I'm subtracting from. I regroup 1 ten from the first number as 10 ones. For example, $34 - 29$. I regroup 1 ten from 34 as 10 ones. So $34 = 20 + 14$. Then I subtract the ones and the remaining tens.

Find $34 - 29$. Do you need to regroup?

34 is 3 tens and 4 ones. 29 is 2 tens and 9 ones. 9 ones are more than 4 ones, so I need to regroup. $34 = 20 + 14$. Subtract the ones. $14 - 9 = 5$. Subtract the tens. $20 - 20 = 0$. The answer is 5.
