

# Read About Mental Math within 100

## WHAT IS MENTAL MATH WITHIN 100?

Mental math is math that you do without using a pencil and paper. Friendly numbers and skip counting can help you add and subtract using mental math.

*To better understand mental math within 100...*

## LET'S BREAK IT DOWN!

### What are friendly numbers?

Friendly numbers are numbers that are easy to add. It is easy to add 10 and another number.  $10 + 2 = 12$ . It is easy to add together numbers that make a ten.  $4 + 6 = 10$ . Doubles are also easier to add.  $6 + 6 = 12$ .



### Find how many crayons in all.

You have 11 crayons. A friend has 7 crayons. How many crayons in all?  $11 + 7 = ?$  To make friendlier numbers, take 1 away from 11 to get 10. Then move 1 to the 7 to get 8.  $10 + 8 = 18$ . There are 18 markers in all.



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## Find how many flowers in all.

You have 8 red flowers and 9 blue flowers. How many flowers in all? Use a double fact:  $8 + 8 = 16$ .  $8 + 9$  is one more, so  $8 + 9 = 17$ .



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## Find how many mice are left.

There are 24 mice in a basket. 11 mice leave. How many are left? Find  $24 - 11$ . It is easy to subtract 10. 11 is 10 and 1 more.  $24 - 10 = 14$ .  $14 - 1 = 13$ . There are 13 mice left.



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## Towers

There is a tower of 20 blocks. You add stacks of 10 blocks on top. To add groups of 10 you can skip count by 10.  $20 + 10 = 30$ . To add  $34 + 50$ , skip count by 10. Start at 34, then jump to 44, 54, 64, 74, 84. So,  $34 + 50 = 84$ .



## MENTAL MATH WITHIN 100 VOCABULARY

<b>Add</b>	To put amounts together.
<b>Plus</b>	The word used to describe adding two amounts.
<b>Subtract</b>	To find the difference between two amounts.
<b>Minus</b>	The word used to describe subtracting two amounts.
<b>Mental Math</b>	Solving problems without paper and pencil.
<b>Friendly Numbers</b>	Numbers that are familiar and work as easy starting points, like 10 and 20.

## MENTAL MATH WITHIN 100 DISCUSSION QUESTIONS

### How can we use mental math to add $6 + 9$ ?

We can subtract one from 6 and add one to 9. Then we have  $5 + 10$ . We can also first add 4 to 6, so that we have 10, and then we can add the remaining 5, so we have  $10 + 5 = 15$ . There is more than one way.

### Is there an easier way to subtract $20 - 17$ than counting backward from 20?

Yes. We can count on from 17: 18, 19, 20. We counted 3 numbers, so  $20 - 17 = 3$ .

### How can we use mental math to subtract $11 - 4$ ?

We can first subtract 1 from 11 to make 10. Then subtract 3 more so we are subtracting  $10 - 3$ , which is easier. We can also count on from 4 to 11.

### What happens to the tens place when we add $40 + 30$ ? What happens to the ones place?

The tens place changes but the ones place stays the same.

### What happens to the tens place when we subtract $53 - 20$ ? What happens to the ones place?

The tens place changes but the ones place stays the same.