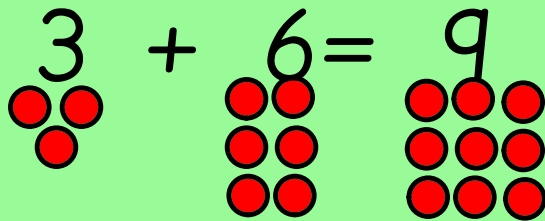
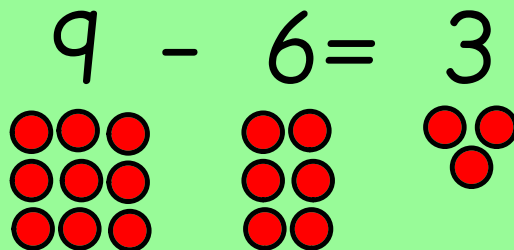


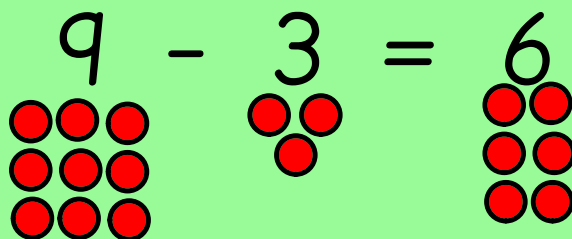
13.10.2021

LO: To use the inverse operation to solve
addition and subtraction problems.

There is a clear relationship between addition and subtraction. You can create different number sentences using the same three numbers! This is called finding the 'inverse.'

$$3 + 6 = 9$$


$$9 - 6 = 3$$


$$9 - 3 = 6$$


What addition and subtraction number sentences can you make from $4+6=10$?

$$4 + 6 = 10$$

What addition and subtraction number sentences can you make from $21+13=34$?

$$21+13=34$$

What addition and subtraction number sentences can you make from $22-10=12$?

$$22-10=12$$

What addition and subtraction number sentences can you make from $24 + 45 = 69$?

$$24 + 45 = 69$$

Find the 4 addition/subtraction sums using these three numbers.

7 81 88

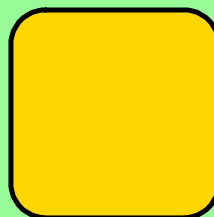
Find the 4 addition/subtraction sums using these three numbers.

12 36 24

Find the 4 addition/subtraction sums using these three numbers. Can you work out what the missing number could be?

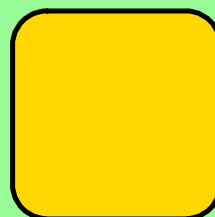
19

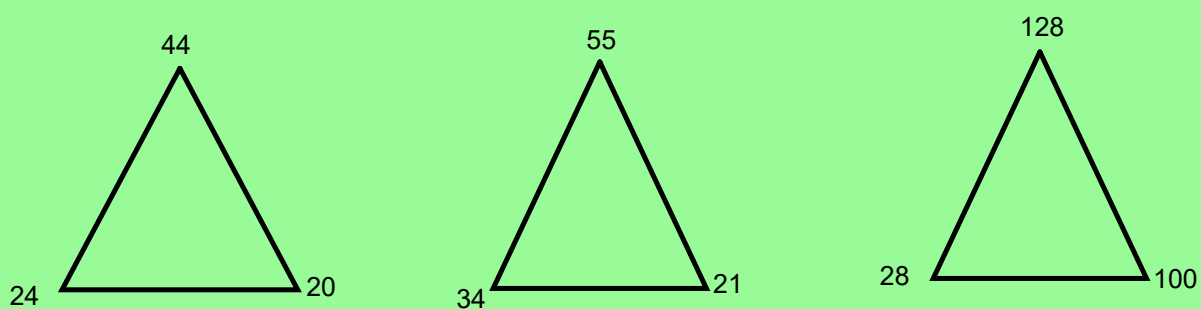
46



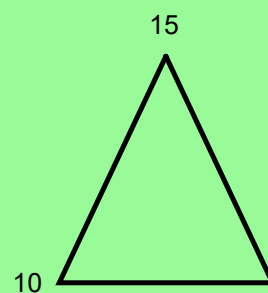
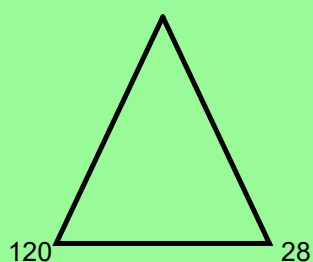
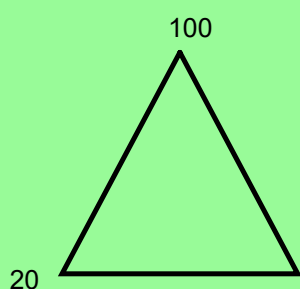
Find the 4 addition/subtraction sums using these three numbers. Can you work out what the missing number could be?

20 22



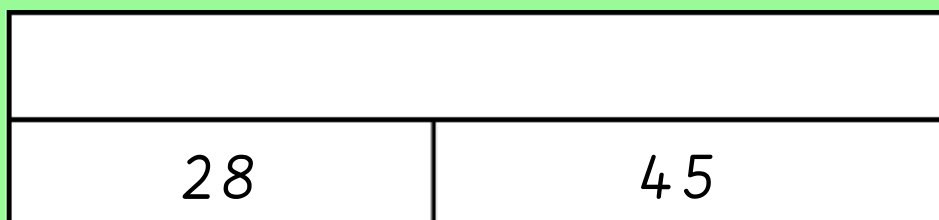


Which addition and subtraction sums can you find from these numbers?

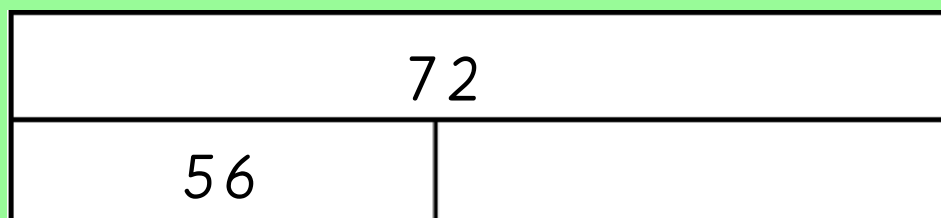


Complete the missing part of the fact family triangles.

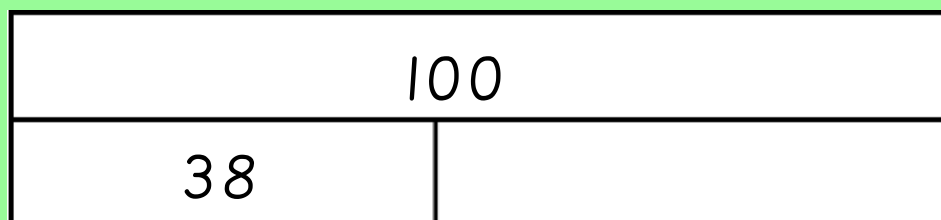
Use the bar model below to find the inverse number sentences.



Use the part-whole model below to find the inverse number sentences.



Use the bar model below to find the inverse number sentences.



Main Task

13.10.2021

LO: To use the inverse operation to solve addition and subtraction problems

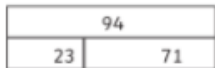
Tick the number sentences that show inverses and cross out the ones that don't.

$19 + 13 = 32$	$85 - 15 = 70$	$47 - 26 = 21$
$32 - 18 = 14$	$85 + 15 = 100$	$21 + 26 = 47$

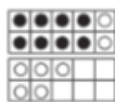
Fill in the missing gaps to create inverse number sentences.



$56 - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = 56$



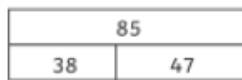
$\underline{\quad} + \underline{\quad} = 94$
 $94 - \underline{\quad} = \underline{\quad}$



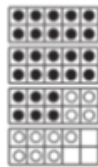
$\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$



$\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$



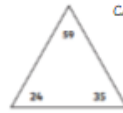
$\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$



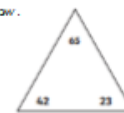
Can you write number sentences using the numbers, 38, 27 and 11?

$\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Complete the boxes below.



$\square + \square = \square$
 $\square + \square = \square$
 $\square - \square = \square$
 $\square - \square = \square$



$\square + \square = \square$
 $\square + \square = \square$
 $\square - \square = \square$
 $\square - \square = \square$



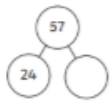
$\square + \square = \square$
 $\square + \square = \square$
 $\square - \square = \square$
 $\square - \square = \square$



$\square + \square = \square$
 $\square + \square = \square$
 $\square - \square = \square$
 $\square - \square = \square$

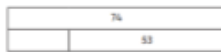
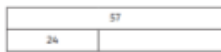
Create your own triangles below showing the inverse operation. Write the addition and subtraction sums below in your book.





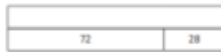
$$\begin{array}{l} \square + \square = \square \\ \square + \square = \square \\ \square - \square = \square \\ \square - \square = \square \end{array}$$

$$\begin{array}{l} \square + \square = \square \\ \square + \square = \square \\ \square - \square = \square \\ \square - \square = \square \end{array}$$



$$\begin{array}{l} \square + \square = \square \\ \square + \square = \square \\ \square - \square = \square \\ \square - \square = \square \end{array}$$

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$$\begin{array}{l} \square + \square = \square \\ \square + \square = \square \\ \square - \square = \square \\ \square - \square = \square \end{array}$$

Need Help?

When calculating $17,468 - 8,947$, which answer gives the corresponding addition question?

- $8,947 + 8,631 = 17,468$
- $8,947 + 8,521 = 17,468$
- $8,251 + 8,947 = 17,468$

I'm thinking of a number. After I add 5,241 and subtract 952, my number is 9485. What was my original number? _____

Eva and Dexter are playing a computer game. Eva's high score is 8524. Dexter's high score is greater than Eva's. The total of both of their scores is 19384. What is Dexter's high score? _____

Complete the pyramid using addition and subtraction.



Mo, Whitney, Teddy and Eva collect marbles. In total they have 8,524 marbles between them. How many does Eva have?

I have 1,648 marbles.
Mo

I have double the amount of marbles Mo has.
Whitney

I have half the amount of marbles Mo has.
Teddy