

## Learning to Add 4, 2 digit numbers

We will add and subtract within 1,000.

We will +10 and +100 to any given number.

We will -10 and -100 from any given number.

We will Explain why addition and subtraction strategies work.

We will also Add and Subtract 3 Digit Numbers by

Decomposing

Breaking apart one number

Recording using the number line or arrow way.


$$36 + 45 = 81$$

$$\begin{array}{c} \wedge \\ 30 + 6 \end{array}$$

$$\begin{array}{c} \wedge \\ 40 + 5 \end{array}$$

or

$$45 + 30 = 75$$

$$75 + 6 = 81$$

$$30 + 40 = 70$$

$$6 + 5 = 11$$

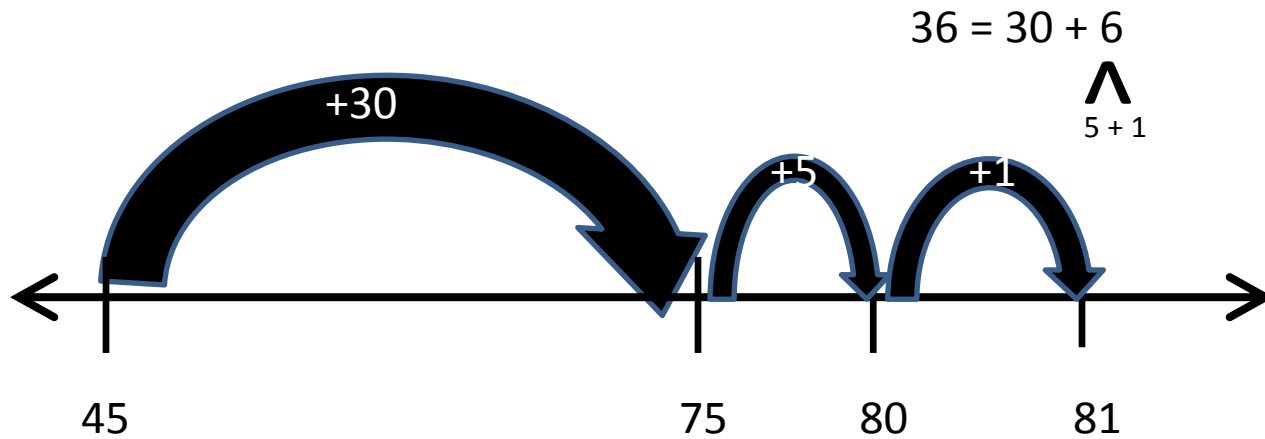
$$70 + 11 = 81$$

Record using Arrow Way:

$$30 \xrightarrow{+40} 70 \xrightarrow{+6} 76 \xrightarrow{+5} 81$$

$$45 \xrightarrow{+30} 75 \xrightarrow{+6} 81$$

It can be recorded using a number line:



When we add four 2 digit numbers:

We can break them apart into tens and ones:

$$26 + 32 + 14 + 45 + 117$$

$$20 + 30 + 10 + 40 = 100$$

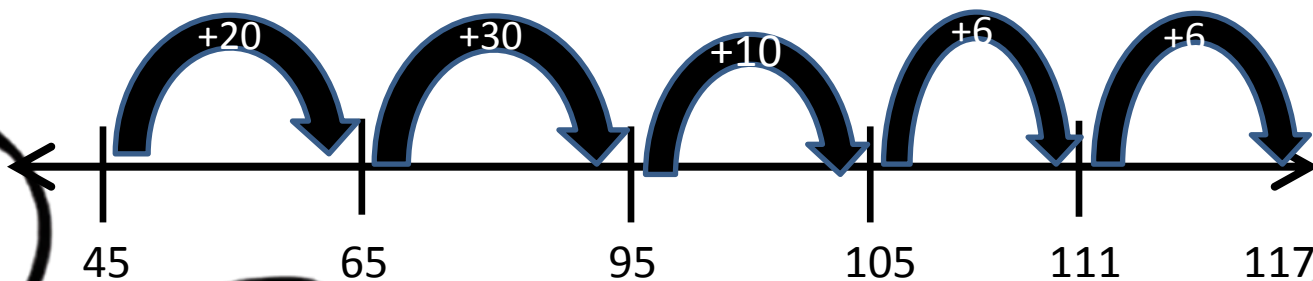
$$6 + 2 + 4 + 5 = 17$$

$$100 + 17 = 117$$

We can use the arrow way:

$$45 \xrightarrow{+20} 65 \xrightarrow{+30} 95 \xrightarrow{+10} 105 \xrightarrow{+12} 117$$

We can use a number line



# When we add two 3 digit numbers

We can break apart both numbers:

$$265 + 348 = 613$$

$$200 + 60 + 5$$

$$\underline{300 + 40 + 8}$$

$$500 + 100 + 13$$

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$$600 + 13 = 613$$

$$200 + 300 = 500$$

$$60 + 40 = 100$$

$$5 + 8 = 13$$

$$600 + 13 = 613$$

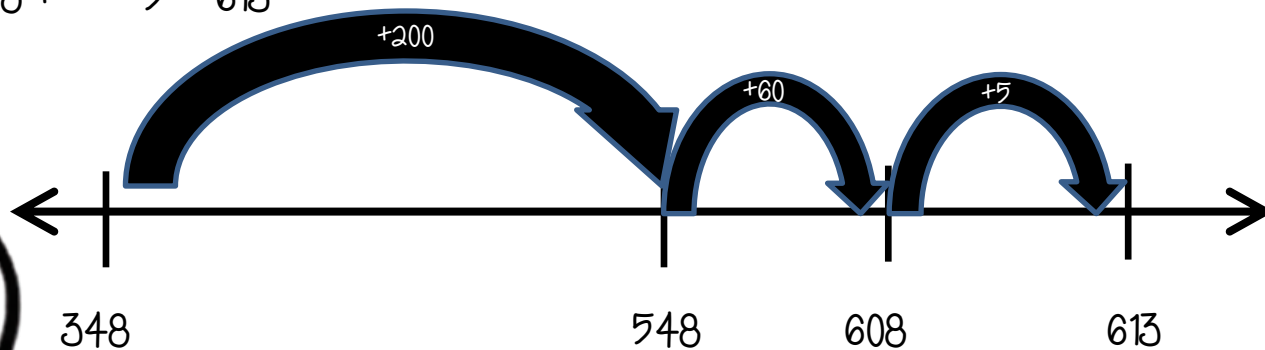
Or break apart 1 number

$$348 + 200 = 548$$

$$548 + 60 = 608$$

$$608 + 5 = 613$$

$$348 \xrightarrow{+200} 548 \xrightarrow{+60} 608 \xrightarrow{+5} 613$$



When we subtract two 2 digit numbers  
We can

Expand the second Number

$$62 - 38 =$$

$$30 + 8$$

$$62 - 30 = 32$$

$$32 - 8 = 24$$

$$8 = 2 + 6$$

$$32 - 2 = 30$$

$$30 - 6 = 24$$

May decompose 8

We can use the arrow way

$$62 \xrightarrow{-30} 32 \xrightarrow{-8} 24$$

Count up from the lowest number

$$38 + 2 = 40 \quad (\text{added to a 10})$$

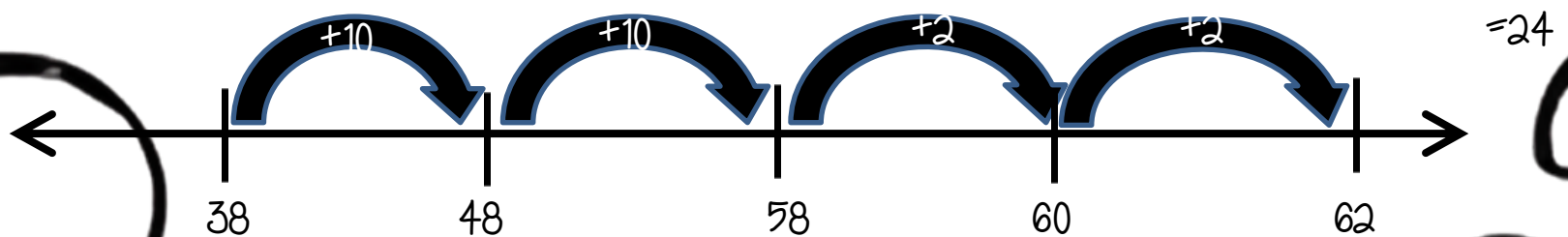
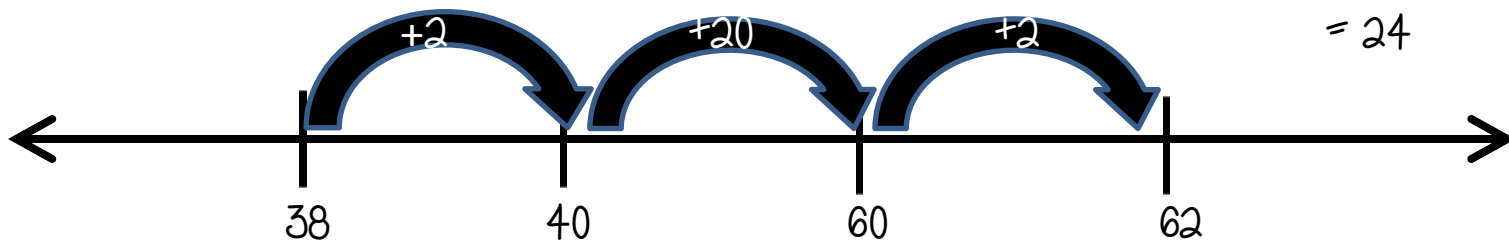
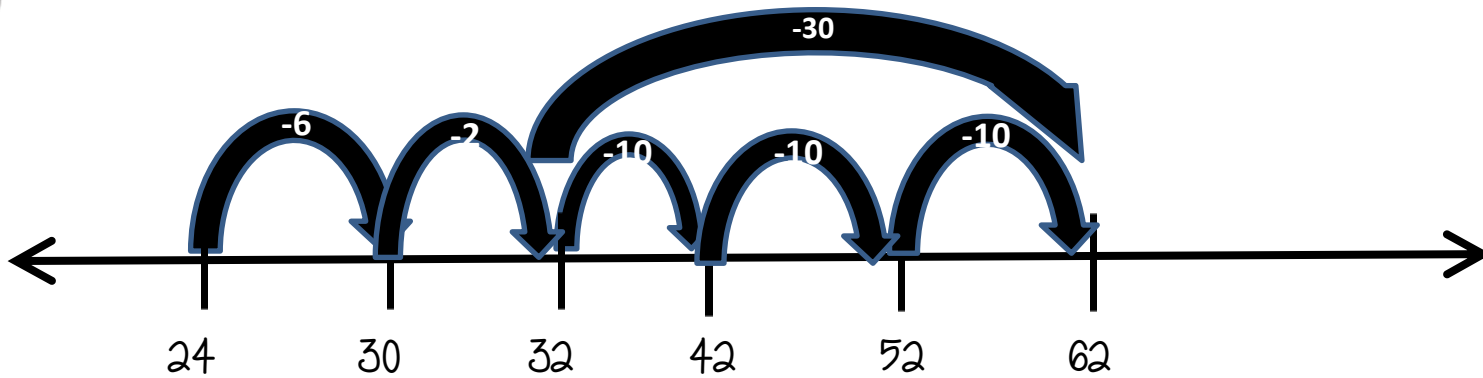
$$40 + 20 = 60$$

$$60 + 2 = 62$$

Add your jumps  $2 + 20 + 2 = 24$

Arrow way

$38 \xrightarrow{+2} 40 \xrightarrow{+20} 60 \xrightarrow{+2} 62$  the jumps equal 24.



When we subtract two 3 digit numbers

Break apart one number.

We can

Add up from our lowest

$$523 - 386 =$$
$$300 + 80 + 6$$

$$523 - 300 = 223$$

$$223 - 80 =$$

$$\begin{array}{c} \wedge \\ 20 \quad 60 \end{array}$$

$$223 - 20 = 203$$

$$203 - 60 = 143$$

$$143 - 6 = 137$$

$$386 + 100 = 486$$

$$486 + 4 = 490$$

$$490 + 10 = 500$$

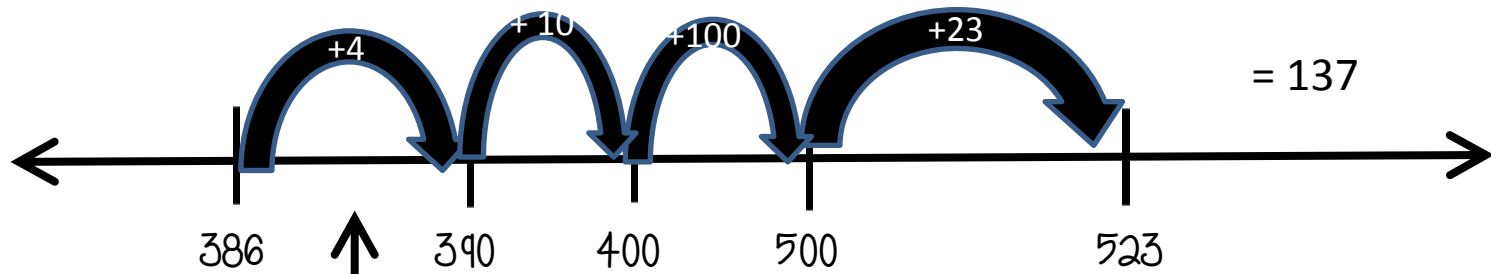
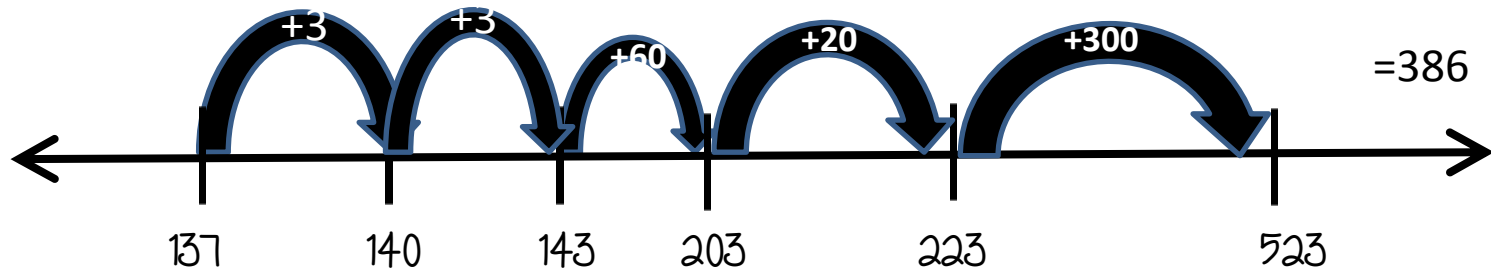
$$500 + 23 = 523$$

$$100 + 4 + 10 + 23 =$$

$$100 + 37 = 137$$

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Same, just recorded using the arrow way.

$$386 \xrightarrow{+4} 390 \xrightarrow{+10} 400 \xrightarrow{+100} 500 \xrightarrow{+23} 523$$

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