

Key Vocabulary

add

total

plus

sum

more

altogether

difference

subtract

less

minus

take away

column addition

column subtraction

exchange

estimate

inverse operation

solve problems

number facts

place value

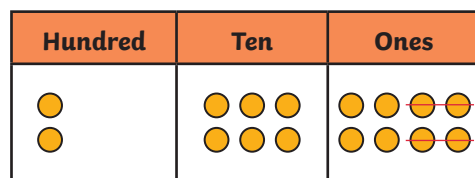


Addition and Subtraction Methods

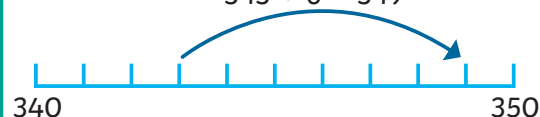
3 digit and 1 digit numbers

Not crossing 10s

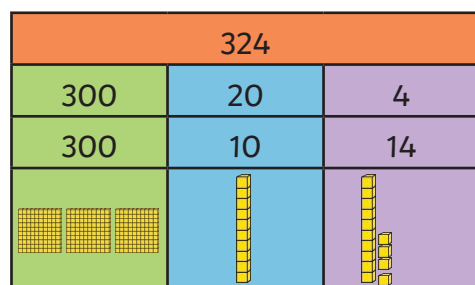
$$268 - 4 = 264$$



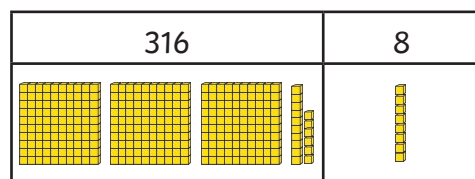
$$343 + 6 = 349$$



Crossing 10s (Exchanging)



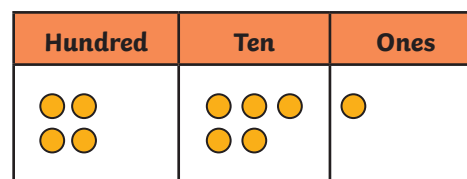
$$316 + 8 = 324$$



$$324 - 8 = 316$$

3-digit and 2-digit numbers

Add and subtract tens



$$451 + 3 \text{ tens} = 481 \quad (5 + 3 = 8)$$

$$451 - 4 \text{ tens} = 411 \quad (5 - 4 = 1)$$

Crossing 10s (Exchanging)

$$258 + 80 = 338$$

- Column method
- Count in 10s mentally
- Add 100, subtract 20

Crossing 10 and 100

$$\begin{array}{r} 368 \\ +73 \\ \hline 1 \\ 1 \end{array}$$

$$\begin{array}{r} 368 \\ +73 \\ \hline 41 \\ 1 \end{array}$$

$$\begin{array}{r} 368 \\ +73 \\ \hline 441 \\ 1 \end{array}$$

$$\begin{array}{r} 31 \\ 441 \\ -73 \\ \hline 8 \end{array}$$

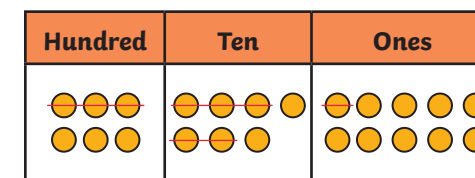
$$\begin{array}{r} 3131 \\ 441 \\ -73 \\ \hline 68 \end{array}$$

$$\begin{array}{r} 3131 \\ 441 \\ -73 \\ \hline 368 \end{array}$$

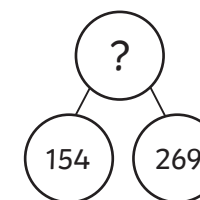
3-digit numbers

Not crossing

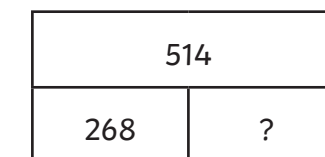
$$679 - 351 = 328$$



Crossing 10s (Exchanging)



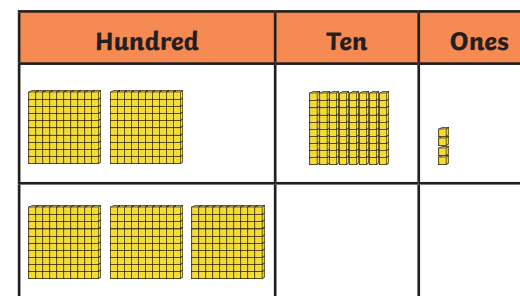
$$\begin{array}{r} 269 \\ +154 \\ \hline 423 \\ 11 \end{array}$$



$$\begin{array}{r} 4101 \\ \cancel{514} \\ -268 \\ \hline 246 \end{array}$$

Add and Subtract 100s

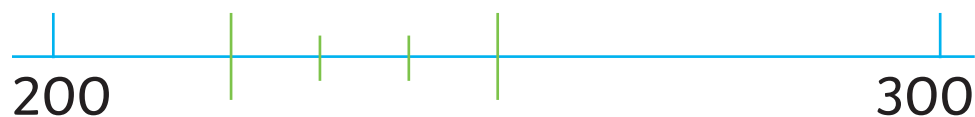
$$264 + 300 = 564$$



Estimate

Estimate by dividing the hundred into 250 and 225.

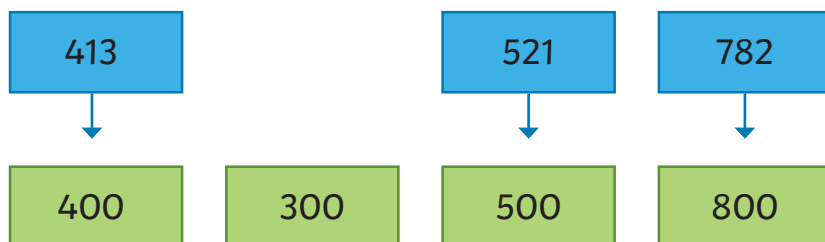
Estimate 10s (330, 340) between 325 and 350.



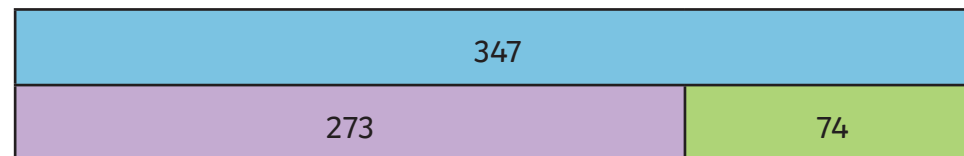
Estimate $167 - 89$

Use near numbers $170 - 90 = 80$

Near numbers:



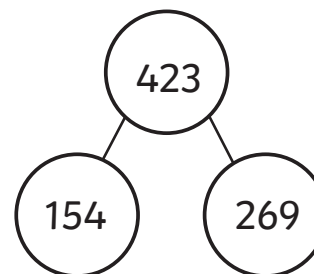
Check Answers



$347 - 74 = 273$ can be checked using

$$273 + 74 = 347$$

This part whole shows the inverse calculations using these three numbers.



$154 + 269 = 423$	$269 + 154 = 423$
$423 - 154 = 269$	$423 - 269 = 154$