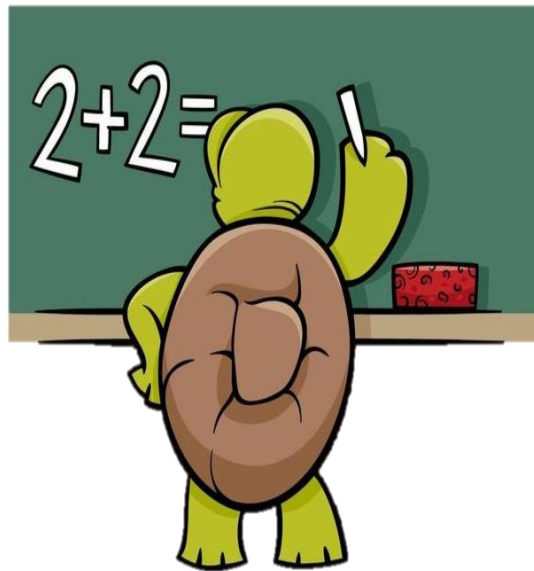


### Overview



#### In addition and subtraction, we learn to:

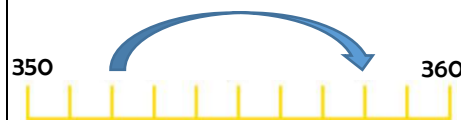
- Add and subtract multiples of 100.
- Add and subtract 3-digit and 1-digit numbers.
- Subtract a 1-digit number from a 3-digit number.
- Add and subtract 3-digit and 2-digit numbers.
- Add and subtract 100s    -Spotting patterns.

Addition and Subtraction is useful learning because it is used in many areas of everyday life – e.g. shopping, cooking, or playing games. It also forms the basis for lots of other maths ideas.

### Addition Methods

#### 3-digit and 1-digit numbers

##### Not crossing 10



$$352 + 6 = 358$$

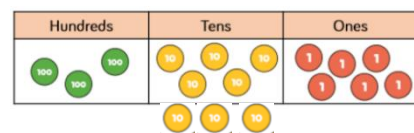
##### Crossing 10

232		
200	30	2
200	20	12
HUNDREDS	TENS	ONES

$$224 + 8 = 232$$

#### 3-digit and 2-digit numbers

##### Adding Tens



$$356 + 30 = 386 \text{ (5 tens plus 3 tens)}$$

When crossing 10, we can use column addition or count in 10s mentally.

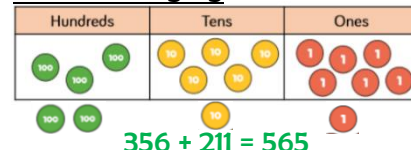
##### Crossing 10/ 100

$$\begin{array}{r} 677 \\ + 74 \\ \hline 751 \\ 11 \end{array}$$

Use exchanging for answers larger than 10. Remember to include this in the next calculation.

#### 3-digit numbers

##### Not Exchanging



$$356 + 211 = 567$$

When exchanging/ crossing 10/100, we can use column addition, as shown below left, but with 3-digit plus 3-digit numbers).

##### Adding 100

$$243 + 200 = 443$$

HUNDREDS	TENS	ONES

### Subtraction Methods

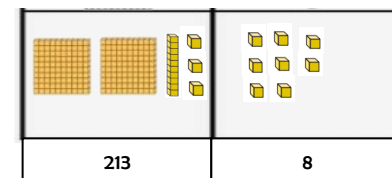
#### 3-digit and 1-digit numbers

##### Not crossing 10



$$427 - 4 = 423$$

##### Crossing 10



$$221 - 8 = 213$$

#### 3-digit and 2-digit numbers

##### Subtracting Tens



$$356 - 20 = 336 \text{ (5 tens minus 2 tens)}$$

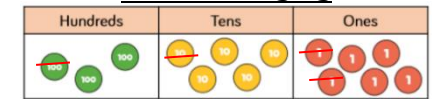
When crossing 10, we can use column addition or count in 10s mentally.

##### Crossing 10/ 100

$$\begin{array}{r} 4 \overset{1}{\cancel{5}}48 \\ - 97 \\ \hline 451 \end{array}$$

Use exchanging for answers below zero. Remember to subtract the exchanged value from the next column.

#### 3-digit numbers Not Exchanging



$$356 - 112 = 244$$

When exchanging/ crossing 10/100, we can use column subtraction, as shown below left, but with 3-digit minus 3-digit numbers).

##### Adding 100

HUNDREDS	TENS	ONES

$$443 - 200 = 243$$

### Estimate

Being able to estimate using known facts helps us to check that answers are reasonable.

#### Estimating using near numbers

##### Estimate 221 - 78

Near number to 221 = 220

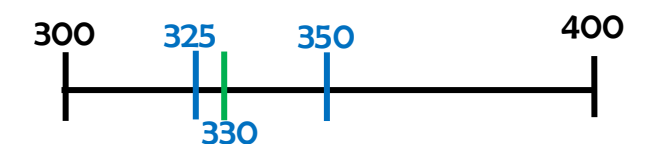
Near number to 78 = 80

$$220 - 80 = 140$$

**Estimate = 140**

#### Estimating marked numbers on a number line

Estimate the value of the green line



The student has added the blue lines to break down the hundred further, to give an estimate of 330.

### Key Vocabulary

Estimate

Sum

Add

Subtract

Altogether

Difference

Exchange

Column Method

Number Line

Number Bond

Inverse