## Year 3 Maths Home Learning w/c: 16-11-20

## Monday -

## Adding a 3-digit number and IOs

a) The birch tree is 10 years older than the beech tree. The horse chestnut is 20 years older than the beech tree. Use addition to work out their ages.
b) Represent the addition for the horse chestnut on a number line.

## Share

a) $184+10$ can be solved like last lesson but $184+20$ is different

$$
\begin{aligned}
& 8 \text { tens }+1 \text { ten }=9 \text { tens } \\
& 184+10=194
\end{aligned}
$$ The birch tree is 194 years old.



$$
184+20=204
$$

The horse chestnut tree is 204 years old.


## Think together

（1）The oak tree is 50 years older than the beech tree． How old is the oak tree？

| H | T | 0 |
| :---: | :---: | :---: |
|  | 澵開閶 | ロコロコ |
|  |  |  |

$184+50=$
The oak tree is $\square$ years old．
（2）A giant redwood tree is 260 years old．
How old will it be in 90 years？

$260+90=$
The giant redwood will beyears old．A cypress tree is 385 years old．
Complete the information in the table．

| Time | Calculation | Age of tree |
| :--- | :--- | :--- |
| Present day | $385+0$ | $\square$ years |
| 30 years from now | $385+30$ | $\square$ years |
| 60 years from now | $385+\square$ | $\square$ years |
| $\square$ years from now | $385+\square$ | 475 years |

It looks like one of these is a missing number problem．


4 For which of these calculations do you need to exchange 10 tens for I hundred？
$60+365=$ ？

$+30$

181


## 

I know what to do for $365+60$ ，but what about $60+365$ ？

I will add in a different order，

Unit 2: Addition and subtraction (1), Lessen 6

## Adding a 3-digit number and IOs

There are 475 people already visiting the castle.The coach brings 50 more people.
How many people are visiting the castle now?

| H | T | 0 |
| :---: | :---: | :---: |
|  | 躙 | a6asa |
|  | 䉮 |  |


$\square$
There are people visiting the castle now.
2 Richard is using drawings and place value equipment to solve these calculations. Complete his additions.


Unit 2: Addition and subtraction (1), Lesson 6
3 Complete the missing numbers.
a) $234+90=$
b) $371+50=$ $\qquad$ $+60$
c) $\square$ $=40+569$
d) $20+$ $\square$ $=319$
e) 50 more than 762 is $\square$
f) $150=$
 $+90$

4 What mistake has Isla made?
$\qquad$


5 Solve these additions.
a) $294+70$ $\square$
c) $284+80=$
$\square$
e) $274+90=$
b) $\square$ $=90+326$
d) $\square$ $=70+346$
f) $\square$ $=50+366$

Explain ary patterns that you noticed.


## Reflect

When I add a 3-digit number and tens, I know I will need to
exchange 10 tens for 1 hundred if

- $\qquad$
- 
- 


## Tuesday -

Unit 2: Addition and subtraction (1), Lessen 7
Subtracting 10s from a 3-digit number
a) Jen has 210 m of dinosaur fabric to sell.

How much is left after she sells 20 m ?
b) Jen sells some more dinosaur fabric. Now she has 140 m left How much did she sell?

## Share



## Think together

（1）
Jen has 335 m of space fabric and sells 50 m ．
How much is left？

| H | T | 0 |
| :---: | :---: | :---: |
|  | 明 | กากัก |


| H | T | 0 |
| :---: | :---: | :---: |
|  |  | 900コロ |tens－tens $=$ $\square$ tens

$335-50=$
There is $\qquad$ m of space fabric left．Toshi has 80 m of bee fabric to sell．Jen has 213 m of bee fabric to sell．
How much more bee fabric does Jen have than Toshi？

| H | T | 0 |
| :---: | :---: | :---: |
|  | 書 | －0． |

I think this is a find the difference．I can use subtraction．
$213 \bigcirc 80=\square \mathrm{m}$
Jen has $\qquad$ m of bee fabric more than Toshi．What calculation does the number line show？

（4） F
Flo is trying to solve 235－60．
Flo has represented her exchange using a part－whole model．

Explain the calculation and the method used here．


Think of your own word problem to go with this calculation．

## Subtracting IOs from a 3-digit number

a) Lucas's book has 225 pages. He has read 70 pages. How mary pages does he have left to read?

$$
\begin{aligned}
& 12 \text { tens }-\square \text { tens }=\square \text { tens } \\
& 225-70=\square \text { Lucas has } \square \text { pages left. }
\end{aligned}
$$

b) Sara's book has 231 pages. She has 60 pages left to read. How many has she already read?


$$
231-60=\square
$$

Sara has $\qquad$ pages left.
c) George has read 80 pages. His dad has read 315 pages. How many more pages has his dad read than George?


George's dad has read $\qquad$ more pages.

2 Complete the part-whole model and missing base 10 equipment Then complete the calculations.
a)

$326-60=$

b)

$632-80=$ $\square$

3 Find the missing numbers.

| 30 less | Number | 30 more |
| :---: | :---: | :---: |
|  | 215 | 245 |
|  | 316 |  |
|  |  | 300 |

4 Complete the calculations.
a) $340-60=$
c) $350-60=$

b) $\square$ $=821-70$
d) $\square$ $=831-70$

Unit 2: Addition and subtraction (1) Lesson 7
5 Complete the calculations to match each answer shown on the number line.


6 Reena thinks of a number. She adds 90 , then adds 80 ,
then adds 70 . She finishes on a number with the digits I, 2 and 3 . What numbers could she have started on?

## Reflect

I know $15-8$ so I can work out $251-80$ by

62

## Adding and subtracting a 3－digit and

 a 2－digit number

## Discover

a）Holly drives from Leicester to Bath．She then drives to Weston－super－Mare．

How many miles is Holly＇s total journey？
b）She has driven II miles from Leicester．
How far left to Bath？

## Share

a）Now we are adding 10 s and Is．


Holly＇s journey is 188 miles in total．
b）It is 141 miles from Leicester to Bath． Holly has travelled II miles．

First subtract I from the ones．
Then subtract I ten．
$141-11=130$
It is still 130 miles to Bath．

| H | T | 0 |
| :---: | :---: | :---: |
| \＃\＃ | 䀘閏品 |  |



## Think together

I Jack has already driven 74 miles on the way to Cardiff from Norwich． How much of the journey is left？

## H T O

－ $\qquad$

There are $\square$ miles left of the journey．


2 Kay has driven 21 miles already． How much of the journey is left？

| H | T | 0 |
| :---: | :---: | :---: |
|  | 目閸飳 | －85 |

H T O

$$
-21
$$

$-21=$
$\square$
（3）
How far is the total journey？
H T O
$\qquad$

The total journey is $\qquad$ miles．

4 Discuss the different methods you would use to solve these calculations．
$130+51 \quad 609-7$
$891-60 \quad 938-26$
$48+431$
$205+50$
$234+52$


I would check using equipment
or write the calculation down．


## Adding and subtracting a 3－digit and a 2－digit number

a）On Monday a postman delivered 152 letters．On Tuesday he delivered 37 letters．How mary letters did he deliver in total？| H | T | 0 |
| :---: | :---: | :---: |
|  | 蔵開 | $\square$ |
|  | 䦩 | 080acaso |

$$
\begin{array}{rll}
H & T & O \\
\hline 1 & 5 & 2 \\
+ & & \\
\hline
\end{array}
$$

$152+37=\square$
He delivered $\qquad$ letters in total．
b）On Friday，the postman delivered 41 fewer letters than on Monday．How many letters did the postman deliver on Friday？


H T O
$-$ $\qquad$


2 Match the calculations to the pictures．
Which one does not have a matching picture？


$$
\begin{array}{llll}
196-33 & 378-61 & 101+34 & 41+125 \\
33+342 & 399-21 & 177-15 &
\end{array}
$$

－
Complete the calculations．Invent another for the pattern in each column．


4 Complete the calculations.
$\square \bigcirc \square$

| H | T | O |
| :--- | :--- | :--- |
| 8 | 5 | 8 |

$-\quad 35$
$\square$
(5) Fill in the missing digits and write the calculations in full.


## Reflect

Corvince your partner that $453+41=494$ and $453-41=412$


Unit 2: Mdedition and subtraction (1), Lesson 9
Adding a 3-digit and a 2-digit number

## Discover

a) Zoe buys a large fish tank and a pump. How much does Zoe spend altogether?
b) Aaron buys a zebrafish and a clownfish. How much does this cost in total?

## Share

a)

$275+16=291$
Zoe spends $£ 291$ altogether
b) $45+61=106$

$\begin{array}{r}H \quad \mathrm{~T} O \\ \hline 4 \quad 5 \\ +\quad 6 \quad 1 \\ \hline 1066 \\ \hline\end{array}$

The zebrafish and the clownfish cost $£ 106$ in total.

## Unit 2：Madition and subtracion（1），Lessen 9

## Think together

（1）Tia buys a large fish tank and a clownfish．
How much does she spend？

| H | T | 0 |
| :---: | :---: | :---: |
|  | 嘪贔測 | a0983 |
|  |  | a |

$275+61=$
Tia spends $f$ $\square$ in total．

2
Solve these additions： $126+57$ and $156+27$ ．
What do you notice？Can you explain？

| H | T | 0 |
| :---: | :---: | :---: |
|  | 睍 | $\square_{\square}^{\square 0 ก 93}$ |
|  | 羽羽 |  |

[^0]

| $\mathrm{H} T \mathrm{O}$ |
| ---: |
| I 56 |
| $+\quad 27$ |

（3）
Mark and Poppy wanted to write their additions in columns．
What mistakes did they make？

$$
\begin{aligned}
& \text { Mark's addition } \\
& \hline \begin{array}{lll} 
\\
\hline & \text { T } & \text { O } \\
\hline 1 & 5 & 4 \\
+\quad 7 & 2 \\
\hline 1 & 2 & 6 \\
\hline
\end{array}
\end{aligned}
$$

Poppy＇s addition

| H T |
| :--- |
| I |
| 6 |

$\begin{array}{r}27 \\ \hline 1811\end{array}$How many different additions can you make using these cards？


Do any of your calculations add to the same total？Explain why．


## Adding a 3－digit and a 2－digit number

（1）a）The other sunflower is 23 cm taller．
What is its height？

| H | T | $\bigcirc$ | H T O |
| :---: | :---: | :---: | :---: |
| 䒼曲曲曲曲 | 闑 |  | $\begin{array}{r} 168 \\ +\quad 23 \\ \hline \end{array}$ |
|  | 相 | （0as） |  |


$168+23=$ The other sunflower is $\qquad$ cm tall．
b）A sunflower is 183 cm tall．It grows 51 cm taller．How tall is it now？

| H | T | 0 | H T O |
| :---: | :---: | :---: | :---: |
|  |  | －0， | $\begin{array}{r} 183 \\ +\quad \end{array}$ |
|  | 䭈閏 | $\square$ |  |

2 Complete this addition．


3 Sort the calculations into three groups．

| $238+71$ | $827+31$ | $712+38$ | $327+18$ |
| :--- | :--- | :--- | :--- |
| $318+72$ | $731+28$ | $73+182$ | $28+137$ |


| No <br> exchange | Exchange <br> 10 ones |
| :---: | :---: |
| Exchange <br> 10 tens |  |

4
Complete these additions．

a） | H T O |
| :--- |
| 2 F |

$\begin{array}{r}47 \\ \hline\end{array}$

c） | H T O |
| :--- |
| 303 |

e） | $\mathrm{H} \quad \mathrm{T}$ | O |
| :--- | :--- | :--- |
| $5 \quad 2 \quad 5$ |  |

$+\quad 76$
$\square$
$\qquad$
$\square$ $=39+461$
b） $188+13=$
d） $50+672=$

Unit 2: Addikion and subtraction (1), Lesson 9
5 Find the missing digits.
a) $3 \square 5+6 \square=416$
b) $35 \square+\square 2=416$

6 Use each number once. Write additions so that they all have to exchange 10 ones and 10 tens.


I chose the six pairs by

## Reflect

Explain how to add a 3-digit and a 2-digit number in three steps.

68

## Friday -

## Unit 2. Addilion and subtraction (1). Lessen 10



Uniz 2: Aestion and sabtraction (1), Leston 10

## Think together

(1) Next autumn, they plant 246 new trees. 63 of them are blown down. How many are left?

| H | T | 0 |
| :---: | :---: | :---: |
|  | 開 | มจตาม |



$246-63=$| H | T | O |
| :--- | :--- | :--- |
| 2 | 4 | 6 |trees are left. $\qquad$

(2)

They planted 55 oak trees and $|9|$ birch trees.
How many more birch did they plant?



They planted $\qquad$ more birch trees.

3 How many more plum than apricot trees did they plant in the orchard?

| Trees | Number <br> planted |
| :--- | :---: |
| Apricot | 43 |
| Plum | 221 |
| Apple | 302 |
| Walnut | 65 |


(4) Flo is trying to work out 302-65 to find how many more apple than walnut trees have been planted.


## Subtracting a 2-digit number from a 3-digit number

1) There are 345 children at school on Thursday.
a) A minibus takes 27 children on a trip. How many children are left in school?

$345-27=$
There are $\square$ children left in school.
b) On Friday there are 345 children at school. 54 children have packed lunch. The rest have school dinners. How many school dinners is that?

$345-54=$children have school dinners.

Unit 2: Addition and subtraction (1) Lesson 10
2 Find 66 less than each number shown.

a) | H | T | O |
| :--- | :--- | :--- | :--- |\(\quad \begin{aligned} \& 3 <br>

\& 4\end{aligned}\)
$\qquad$
b)

| H TO |
| :--- | :--- | :--- | :--- | :--- |

$-\quad 66$

3 Complete these subtractions.
a)


c) | H | T | O |
| :--- | :--- | :--- |
| 2 | 6 | 0 |

$\begin{array}{r}266 \\ -\quad 7 \\ \hline\end{array}$
b) $231-62=$ $\square$
d) $988-9 \mathrm{q}=$ $\square$Use each digit card once to make a subtraction. Find five different solutions and mark the results on the number line.


5 Find and correct the mistake in the subtraction.
$157-38=$ $\square$

| H | T | O |
| :--- | :--- | :--- |
| I | 5 | 7 |

$\begin{array}{r}58 \\ -\quad 21 \\ \hline 1\end{array}$
H T O
$\qquad$

6 Crack the code. Each symbol represents one digit.

|  | $\mathbf{H}$ | T | O |
| :---: | :---: | :---: | :---: |
|  | $\triangle$ |  | $\Delta$ |
| - |  | $\triangle$ | $\square$ |
|  |  | $\triangle$ | 1 |



## Reflect

There have been ten lessons in this unit. Think about what you learnt. What are the three most important things to remember?
I.
2.
3.

My favourite lesson was


[^0]:    | H T | O |  |
    | :--- | :--- | :--- |
    | 1 | 2 | 6 |

    $\begin{array}{r}57 \\ \hline\end{array}$

