

1) Practise estimating answers by rounding to the nearest ten. The first one has been done for you.

| Question | Estimate |
| :---: | :---: |
| $\mathbf{a}$ | $682+179$ |
| c | $680+180=860$ |
| e | $589+222$ |
| g |  |
|  | $189+108$ |


| Question | Estimate |  |
| :---: | :---: | :---: |
| b | $271+119$ |  |
| d | $378+119$ |  |
| f | $412+98$ |  |
| h | $911+207$ |  |

2) Add these $\mathbf{3}$ digit numbers using the written method. First, estimate to the nearest ten.

3) Add these 3 digit numbers using the written method:

(3) Solve these word problems using the written method:
a At a muffin shop, 456 banana choc chip muffins were sold on Saturday and 458 caramel chunk muffins were sold on Sunday. How many muffins were sold that weekend?

b A train left the station with 389 people on board and then another 678 people got on over the next three stops. How many passengers were on the train altogether?

(1) Add these 4 digit numbers:

|  | Th | H | T | U |
| :---: | :---: | :---: | :---: | :---: |
| a | 3 | 3 | 5 | 3 |
| + | 1 | 0 | 2 | 1 |
|  |  |  |  |  |


|  | Th | H | T | U |
| :--- | :---: | :---: | :---: | :---: |
| b | 2 | 5 | 4 | 6 |
|  | + | 5 | 4 | 3 |


2) Add these 4 digit numbers by regrouping:


3 Add these 4 digit numbers by regrouping:


## Page 4 - Tuesday - Subtraction

1 Subtract these 3 digit numbers using the written method. Start by writing your estimate. Estimate to the nearest 10.


2 This sign shows the distances of towns along a highway from where the sign is. Find the difference between these places.

a What is the distance between Ringer and Normanville?

|  | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{U}$ |
| :--- | :--- | :--- | :--- |


c What is the distance between Showtown and Ringer?


b What is the distance between Roper and Eagle Bay?

d What is the distance between Roper and Normanville?

(1) Write the numbers which are above each problem in the correct place:
a

b


C

d



2 Solve these. The same symbol means the same number.
a

b




Start with the units. $4 \times 3=12$ units.
Rename this as 1 ten and 2 units. Put the 2 in the units column and regroup the 1 to the tens column.
$3 \times 5$ plus the regrouped 1 is 16 tens.
Rename this as 1 hundred and 6 tens.
(1) Practise these problems:
a

b


d

e



2 Use contracted multiplication to solve these word problems:
a On a farm, 6 lambs were born every day over 25 days. How many lambs were born in total?

b For my school fete day, I baked 9 trays of cupcakes. If there are 14 cupcakes on each tray, how many did I bake in total?


## Written methods - extended multiplication



In extended multiplication, we multiply the units and tens separately, then add the answers together.

1) Practise these problems:


2 Use extended multiplication to solve this word problem:

In a pet store, there are 7 tanks of tropical fish with 14 fish per tank.
How many fish are there altogether?


## Page 9 - Wednesday - Multiplication - EXTENSION QUESTIONS

Can you work out the value of each symbol?
The values are $2,3,4,6,8,9$ and 12 . Remember, the same symbol means that it's the same number.







$\square$
$\square$
$\square$

$$
\begin{array}{llll}
\Delta=\square & \sum=\square & \forall=\square & \nabla=\square \\
(B)=\square & \square=\square & O=\square &
\end{array}
$$

Another way to represent division is with the division symbol.

| T | U | This is the same as $36 \div 6=6$ |  |
| :--- | :--- | :--- | :--- |
| 6 | 3 | 6 | If the answer is a single digit, it should go in the <br> units column. |

1) Solve these division problems using the division symbol:
a 5


| b | $4 \longdiv { 2 }$ |
| :--- | :--- |

c
$9 \longdiv { 1 } \begin{array} { l : l } { 1 } & { 8 } \\ { \hline } \end{array}$
d

$\begin{array}{ll}\text { e } & 2 \\ 1 & 4\end{array}$

h $7 \longdiv { 4 } 9$

| i | $8 \longdiv { 4 }$ |
| :--- | :--- |

2) Use the division symbol to solve each problem:
a 42 cupcakes were iced by 7 kids. If they each iced the same amount, how many did they ice each?

b How many pots were used if 6 seeds were planted in each pot from a packet of 54 ?

c I run the same distance each day. Over 9 days the total distance is 72 km . How far did I run each day?


This is the way we write remainders when using the division symbol.

|  | 2 | $r 3$ |
| :--- | :--- | :--- |
| $6 \longdiv { 1 }$ | 5 |  |

This is the same as $15 \div 6=2$ remainder 3 .
Check your work with the closest multiplication fact:
$6 \times 2=12$
Then add on the remainder: $12+3=15$

1 Solve these division problems and then check them.
a

Check with the multiplication
fact and add the remainder:



Check with the multiplication
fact and add the remainder:
b

$\times$

...........................................................
multiplication fact remainder


Check with the multiplication
fact and add the remainder:
c


$+$

$=$

d


Check with the multiplication
fact and add the remainder:

(2) What is the question if I am checking with this multiplication fact?


In short division with 3-digit numbers we split the number:
468 is $400+60+8$
400 divided by 2 is 200 , so we put a 2 in the hundreds place.
60 divided by 2 is 30 , so we put a 3 in the tens place.
8 is divided by 2 is 4 , so we put a 4 in the units place.


1) Practise splitting these:
a 368 is $\qquad$ $+$ $\qquad$ $+$ $\qquad$ b 445 is $\qquad$ $+$ $\qquad$ $+$
c 567 is $\qquad$ $+$ $\qquad$ $+$ $\qquad$ d 235 is $\qquad$ $+$ $\qquad$ $+$ $\qquad$
(2) Now put these split numbers back together:
a $500+70+8$ is $\qquad$
b $700+90+4$ is $\qquad$
c $200+40+6$ is $\qquad$
d $800+50+5$ is
$\qquad$
(3) Solve these division problems with 3-digit numbers:
a

b

c

d

4. Here are two division problems with missing numbers in the questions. Find out the missing numbers by using the numbers that are part of the answer as clues.
a

b

