# Addition and Subtraction: Add Numbers with One Regroup 

## Aim:

Add and subtract whole numbers with more than 4 digits, including using formal written methods.

To add numbers with one regroup.

## Success Criteria:

I can add whole numbers with up to 4 digits. I can use formal written methods to calculate.

I can explain when and why regrouping is necessary in written calculations.

I can make up to one regroup when using formal written methods of addition.

## Key/New Words:

Add, addition, sum of, more, plus, increase, sum, total, altogether, regroup.

| Resources: |
| :--- |
| Lesson Pack |
| Place value counters |
| Place value grids |
| Preparation: <br> Differentiated Word Mayhem Activity Sheet - one <br> per child <br> Diving into Mastery Activity Sheets - as required |

Prior Learning: It will be helpful if children have a secure understanding of place value and will have added numbers with up to three digits using formal written methods.

## Learning Sequence

Addition: Show the ' + ' sign on the Lesson Presentation. What do we call this operation? Discuss the various
words used to describe the operation of addition, ensuring children understand the terminology.

Calculation Exploration: Children work with a partner to find as many ways as possible to complete the calculation shown on the Lesson Presentation.

## Explorelt

Rollit Children create numbers using a dice roll for each digit. Can they rearrange the digits to make an addition calculation that requires them to regroup just once?
Learnlt: Children will find this Knowledge Organiser a useful tool for strengthening their knowledge of addition and subtraction.
Timelt: Practise addition using the 3 Digit Number Addition Worksheet. This worksheet includes calculations in different formats, to help your children apply their knowledge of addition in a variety of contexts.


## Maths

## Addition and Subtraction

## Add Numbers with



## Aim

- To add numbers with one regroup.


## Success Criteria

- I can add whole numbers with up to 4 digits.
- I can use formal written methods to calculate.
- I can explain when and why regrouping is necessary in written calculations.
- I can regroup once when using formal written methods of addition.


## Remember It

Partition the numbers and write the value of each number in words. An example has been given.

|  | Number | Partitioned | Number in Words |
| :---: | :---: | :---: | :---: |
| a) | 421 | $400+20+1$ | four hundred and twenty-one |
| b) | 1307 | $1000+300+7$ | one thousand, three hundred <br> and seven |
| c) | 2585 | $2000+500+80+5$ | two thousand, five hundred <br> and eighty-five |
| d) | 9070 | $9000+70$ | nine thousand and seventy |
| e) | 9019 | $9000+10+9$ | nine thousand and nineteen |

## Addition



## Adding and Regrouping

| Ten <br> Thousands | Thousands | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |

(10)


Add up the place value counters to help find the value.

## Adding and Regrouping

$$
5214+5142=10356
$$



## Adding and Regrouping



| Ten Thousanns | Thousands | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- | :--- |
| 0 | 0000 | 8000 | 0 | 0000 |
|  | 0 | 0000 |  | 00 |
|  |  |  |  |  |
|  |  |  |  |  |



## Adding and Regrouping




## Adding and Regrouping



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## Adding and Regrouping



|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
|  |  | 2 | 6 | 1 | 2 |  |
|  | + | 1 | 8 | 0 | 4 |  |
|  |  | 4 | 4 | 1 | 6 |  |
|  |  | 1 |  |  |  |  |
|  |  |  |  |  |  |  |

## Word Game

Each letter has a value shown in the grid. We can find the value of the word ' $m$ e' by using column addition.

| A | B | C | D | E | F | G | H | I | J |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1010 | 1111 | 444 | 213 | 4056 | 412 | 678 | 222 | 412 | 6160 |


| K | L | M | N | O | P | Q | R | S | T |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 700 | 1212 | 1016 | 321 | 333 | 999 | 4020 | 312 | 9099 | 492 |


| $U$ | $V$ | $W$ | $X$ | $Y$ | $Z$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 7000 | 5000 | 2031 | 123 | 500 | 8080 |

## Word Game

Each letter has a value shown in the grid. We can find the value of the word ' $m$ e' by using column addition.

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
|  |  | 1 | 0 | 1 | 6 |  |
|  | + | 4 | 0 | 5 | 6 |  |
|  |  | 5 | 0 | 7 | 2 |  |
|  |  |  |  | 1 |  |  |
|  |  |  |  |  |  |  |

## Word Game

Find the value of the word 'us' by using column addition.

| A | B | C | D | E | F | G | H | I | J |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1010 | 1111 | 444 | 213 | 4056 | 412 | 678 | 222 | 412 | 6160 |


| K | L | M | N | O | P | Q | R | S | T |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 700 | 1212 | 1016 | 321 | 333 | 999 | 4020 | 312 | 9099 | 492 |


| $U$ | $V$ | $W$ | $X$ | $Y$ | $Z$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 7000 | 5000 | 2031 | 123 | 500 | 8080 |

## Word Game

Find the value of the word 'us' by using column addition.

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
|  |  | 7 | 0 | 0 | 0 |  |
|  | + | 9 | 0 | 9 | 9 |  |
|  | 1 | 6 | 0 | 9 | 9 |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

## Word Game

We can also add more than two numbers to find the value of words with more than two letters. Have a go at finding the value of this three-letter word: ant.

| A | B | C | D | E | F | G | H | I | J |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1010 | 1111 | 444 | 213 | 4056 | 412 | 678 | 222 | 412 | 6160 |


| K | L | M | N | O | P | Q | R | S | T |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 700 | 1212 | 1016 | 321 | 333 | 999 | 4020 | 312 | 9099 | 492 |


| $U$ | $V$ | $W$ | $X$ | $Y$ | $Z$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 7000 | 5000 | 2031 | 123 | 500 | 8080 |

## Word Game

| Thousands | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- |
| 0 |  | 0 |  |
|  | 000 | 00 | 0 |
|  | 000 | 000 | 00 |
|  |  |  |  |
|  |  |  |  |


|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | 1 | 0 | 1 | 0 |  |
|  |  |  | 3 | 2 | 1 |  |
| + |  | 4 | 9 | 2 |  |  |
|  |  | 1 | 8 | 2 | 3 |  |
|  |  |  | 1 |  |  |  |
|  |  |  |  |  |  |  |

## Word Mayhem

## Word Mayhem

To add numbers with up to 4 digits with one regroup.

| A | B | C | D | E | F | G | H | I | J | K | L | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | 150 | 345 | 658 | 64 | 37 | 101 | 476 | 102 | 14 | 270 | 768 | 182 |


| $\mathbf{N}$ | O | P | Q | R | S | T | U | V | W | X | Y |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 320 | 150 | 100 | 216 | 79 | 35 | 26 | 650 | 765 | 341 | 341 | 653 |
| $\mathbf{R}$ | 853 |  |  |  |  |  |  |  |  |  |  |

1. UP $\qquad$
2. SIT $\qquad$ 7. DOG
3. OUT $\qquad$
4. MOW $\qquad$
5. IN $\qquad$
6. $B E$ $\qquad$

Think about when you need to regroup . not all questions require it!

## Diving into Mastery

Dive in by completing your own activity!


## Calculation Exploration

How many different ways can you find to complete the calculation correctly?

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
|  |  | 2 | 3 | 8 | 4 |  |
|  | + | 3 | 4 | 8 | 3 |  |
|  |  | 5 | 8 | 5 | 7 |  |
|  |  |  | 1 |  |  |  |
|  |  |  |  |  |  |  |

The two missing digits must add up to 15 tens so that 10 tens can be regrouped into 1 hundred as shown.

The tens digits 9 and 6 or 8 and 7 could be used, so there are four possible calculations.

## Aim

- To add numbers with one regroup.


## Success Criteria

- I can add whole numbers with up to 4 digits.
- I can use formal written methods to calculate.
- I can explain when and why regrouping is necessary in written calculations.
- I can regroup once when using formal written methods of addition.


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| T | Teacher | I | Independent |
| :--- | :--- | :--- | :--- |
| PPA | Planning, Preparation and Assessment | AL | Adult Led |
| S | Supply | GP | Guided Practice |



| T | Teacher | I | Independent |
| :--- | :--- | :--- | :--- |
| PPA | Planning, Preparation and Assessment | AL | Adult Led |
| S | Supply | GP | Guided Practice |

1) $3244+1307=4551$
$2154+2154=4308$
$4622+1724=6346$
2) 

|  | 3 | 2 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: |
| + | 6 | 2 | 0 | 4 |
|  | 9 | 4 | 6 | 0 |


|  | 4 | 2 | 6 | 8 |
| ---: | ---: | ---: | ---: | ---: |
| + | 3 | 8 | 2 | 0 |
|  | 8 | 0 | 8 | 8 |
| 2 |  |  |  |  |


|  | 8 | 1 | 3 | 8 |
| :---: | :---: | :---: | :---: | :---: |
| + | 1 | 2 | 9 | 1 |
|  | 9 | 4 | 2 | 9 |

3) 

|  | 2 | 0 | 2 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| + |  | 8 | 9 | 2 |
|  | 2 | 9 | 1 | 2 |
| 1 |  |  |  |  |

1) James' representation is correct. Millie's column addition is incorrect - $\mathbf{1 0}$ tens have not been exchanged for 1 hundred. Haaran's base ten calculation is incorrect for the same reason - 10 (tens) have not been exchanged for 1 hundred.
2) Haaran is not correct. There are many other calculations that produce a 3 in the tens column after exchanging. For example, 80 + $\mathbf{5 0}$ gives 130, as does $90+40$.
3) The missing digits need to total 13 (hundreds). They could be: 9 and 4, 8 and 5 or 6 and 7. There are 6 possible calculations using these combinations.
4) There are $\mathbf{1 0}$ possible ways to complete the calculation:

| Exchanging | No Exchanging |
| :---: | :---: |
| $1323+1217=2540$ | $1333+1210=2543$ |
| $1323+1218=2541$ | $1333+1211=2544$ |
| $1323+1219=2542$ | $1333+1212=2545$ |
|  | $1333+1213=2546$ |
|  | $1333+1214=2547$ |
|  | $1333+1215=2548$ |
|  | $1333+1216=2549$ |

1) Use the representations to help you solve each calculation.

$4622+1724=$

2) Complete these column additions.

|  | 3 | 2 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- |
| + | 6 | 2 | 0 | 4 |
|  |  |  |  |  |


|  | 4 | 2 | 6 | 8 |
| :--- | :--- | :--- | :--- | :--- |
| + | 3 | 8 | 2 | 0 |
|  |  |  |  |  |


|  | 8 | 1 | 3 | 8 |
| :---: | :---: | :---: | :---: | :---: |
| + | 1 | 2 | 9 | 1 |
|  |  |  |  |  |

3) Jen is playing games on her computer. On her first go, she scores 892 points. On her second go, she scores 2020 points. What is her total score?

Use the grid to set out your calculation.


|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

1) Millie, James and Haaran used different representations to show some calculations. Whose answers are correct? Explain and correct any errors.

| Millie |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  | 2 | 2 | 9 | 9 |
| + | 1 | 6 | 1 | 0 |
|  | 3 | 8 | 0 | 9 |



Millie
James

Haaran
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2) Haaran thinks that only $70+60$ would produce an answer with a 3 in the tens column after exchanging. Is he correct? Prove your answer.
$\qquad$
$\qquad$

1) Millie has written part of an addition calculation. James says:

There is only one possible correct answer.

Millie disagrees. How many different ways can you find to complete the calculation correctly?


|  | 6 |  | 3 | 1 |
| :---: | :---: | :---: | :---: | :---: |
| + | 1 |  | 2 | 0 |
|  | 8 | 3 | 5 | 1 |

1
2) How different solutions can you find to complete this calculation? Which solutions include exchange? Which ones do not?

|  | 1 | 3 |  | 3 |
| :---: | :---: | :---: | :---: | :---: |
| + | 1 | 2 | 1 | $\square$ |
|  | 2 | 5 | 4 | $\square$ |

$\square$
3) Now write a missing number addition of your own, including one exchange, for a friend to solve!
$\square$

1) Use the representations to help you solve each calculation.
$3244+1307=$ $\qquad$ _


## $4622+1724=$

$\qquad$
2) Complete these column additions.

|  | 3 | 2 | 5 | 6 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | 6 | 2 | 0 | 4 |  |  |  |  |
|  |  |  |  4 | 2 | 6 | 8 |  |  |
|  |  |  |  |  | 3 | 8 | 2 | 0 |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 8 | 1 | 3 | 8 |  |  |

3) Jen is playing games on her computer. On her first go, she scores 892 points. On her second go, she scores 2020 points. What is her total score?
4) Use the representations to help you solve each calculation.
$3244+1307=$ $\qquad$


$2154+2154=$ $\qquad$

|  |  |
| :---: | :---: |
| 2154 | 2154 |

$4622+1724=$ $\qquad$

2) Complete these column additions.

|  | 3 | 2 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- |
| + | 6 | 2 | 0 | 4 |
|  |  |  |  |  |$\quad$|  | 4 | 2 | 6 | 8 |
| :--- | :--- | :--- | :--- | :--- |
| + | 3 | 8 | 2 | 0 |
|  |  |  |  |  |


|  | 8 | 1 | 3 | 8 |
| :---: | :---: | :---: | :---: | :---: |
| + | 1 | 2 | 9 | 1 |
|  |  |  |  |  |

3) Jen is playing games on her computer. On her first go, she scores 892 points. On her second go, she scores 2020 points. What is her total score?
4) Millie, James and Haaran used different representations to show some calculations. Whose answers are correct?
Explain and correct any errors.


Haaran

2) Haaran thinks that only $70+60$ would produce an answer with a 3 in the tens column after exchanging. Is he correct? Prove your answer.

1) Millie, James and Haaran used different representations to show some calculations. Whose answers are correct?
Explain and correct any errors.


Haaran



$\because$

2) Haaran thinks that only $70+60$ would produce an answer with a 3 in the tens column after exchanging. Is he correct? Prove your answer.

1) Millie has written part of an addition calculation. James says:


There is only one possible correct answer.

Millie disagrees. How many different ways can you find to complete the calculation correctly?

|  | 6 |  | 3 | 1 |
| :---: | :---: | :---: | :---: | :---: |
| + | 1 |  | 2 | 0 |
|  | 8 | 3 | 5 | 1 |
| 1 |  |  |  |  |

2) How different solutions can you find to complete this calculation? Which solutions require regrouping? Which ones do not?

3) Now, write a missing number addition of your own, including one exchange, for a friend to solve!
4) Millie has written part of an addition calculation. James says:


Millie disagrees. How many different ways can you find to complete the calculation correctly?

2) How different solutions can you find to complete this calculation? Which solutions require regrouping? Which ones do not?

|  | 1 | 3 |  | 3 |
| :---: | :---: | :---: | :---: | :---: |
| + | 1 | 2 | 1 | $\square$ |
|  | 2 | 5 | 4 | $\square$ |

3) Now, write a missing number addition of your own, including one exchange, for a friend to solve!

## Thousands, Hundreds, Tens and Ones Place Value Grid

| Thousands | Hundreds | Tens |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

## Word Mayhem

To add numbers with up to 4 digits with one regroup.

| A | B | C | D | E | F | G | H | I | J | K | L | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | 150 | 345 | 658 | 64 | 37 | 101 | 476 | 102 | 14 | 270 | 768 | 182 |


| $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{P}$ | $\mathbf{Q}$ | $\mathbf{R}$ | $\mathbf{S}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{V}$ | $\mathbf{W}$ | $\mathbf{X}$ | $\mathbf{Y}$ | $\mathbf{Z}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 320 | 150 | 100 | 216 | 79 | 35 | 26 | 650 | 765 | 341 | 341 | 653 | 853 |

Find the value of each word using column addition.

1. UP $\qquad$ 4. SIT $\qquad$ 7. DOG $\qquad$
2. CAT $\qquad$ 5. IN
3. OUT $\qquad$
4. MOW $\qquad$ 6. PUT $\qquad$ 9. $B E$ $\qquad$

Think about when you need to regroup - not all questions require it!

## Word Mayhem

To add numbers with up to 4 digits with one regroup.

| A | B | C | D | E | F | G | H | I | J | K | L | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1022 | 1130 | 1005 | 100 | 644 | 37 | 976 | 1026 | 402 | 402 | 2779 | 768 | 102 |


| $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{P}$ | $\mathbf{Q}$ | $\mathbf{R}$ | $\mathbf{S}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{V}$ | $\mathbf{W}$ | $\mathbf{X}$ | $\mathbf{Y}$ | $\mathbf{Z}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3720 | 1501 | 134 | 216 | 79 | 35 | 36 | 209 | 765 | 341 | 6783 | 653 | 85 |

Find the value of each word using column addition.

1. UP $\qquad$
2. SIT $\qquad$ 7. DOG $\qquad$
3. CAT $\qquad$ 5. IN
4. OUT $\qquad$
5. MOW $\qquad$
6. PUT $\qquad$
7. BE $\qquad$

Think about when you need to regroup - not all questions require it!

## Word Mayhem

To add numbers with up to 4 digits with one regroup.

| A | B | C | D | E | F | G | H | I | J | K | L | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1004 | 150 | 345 | 101 | 6384 | 3577 | 671 | 476 | 102 | 2514 | 279 | 768 | 582 |


| $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{P}$ | $\mathbf{Q}$ | $\mathbf{R}$ | $\mathbf{S}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{V}$ | $\mathbf{W}$ | $\mathbf{X}$ | $\mathbf{Y}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 320 | 150 | 314 | 216 | 7649 | 2355 | 3026 | 2330 | 765 | 2241 | 683 | 6653 |

Find the value of each word using column addition.

1. UP $\qquad$ 4. SIT $\qquad$ 7. DOG $\qquad$
2. CAT $\qquad$ 5. IN
3. OUT $\qquad$
4. MOW $\qquad$
5. PUT $\qquad$
6. $B E$ $\qquad$

Think about when you need to regroup - not all questions require it!

## Word Mayhem Answers

| Question |  | 750 | 343 |
| :---: | :---: | :---: | :---: |
| 1 | 396 | 2063 | 2644 |
| 2 | 673 | 1944 | 2975 |
| 3 | 163 | 473 | 5483 |
| 4 | 422 | 4122 | 422 |
| 5 | 776 | 379 | 5670 |
| 6 | 909 | 2577 | 922 |
| 7 | 826 | 1746 | 5506 |
| 8 | 214 | 1774 | 6534 |
| 9 |  |  |  |

Addition and Subtraction | Add Numbers with One Regroup

| To add numbers with one regroup. |  |  |
| :--- | :--- | :--- |
| I can add whole numbers with up to 4 digits. |  |  |
| I can use formal written methods to calculate. |  |  |
| I can explain when and why regrouping is <br> necessary in written calculations. |  |  |
| I can make up to one regroup when using formal <br> written methods of addition. |  |  |

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| I can use formal written methods to calculate. |  |  |
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| :--- | :--- | :--- |
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| I can explain when and why regrouping is <br> necessary in written calculations. |  |  |
| I can make up to one regroup when using formal <br> written methods of addition. |  |  |

Addition and Subtraction | Add Numbers with One Regroup

| To add numbers with one regroup. |  |  |
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| I can add whole numbers with up to 4 digits. |  |  |
| I can use formal written methods to calculate. |  |  |
| I can explain when and why regrouping is <br> necessary in written calculations. |  |  |
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