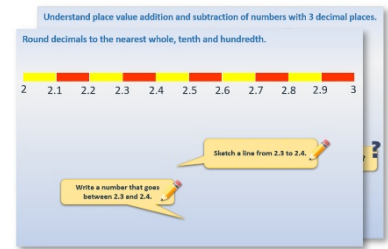


Week 1 Day 1

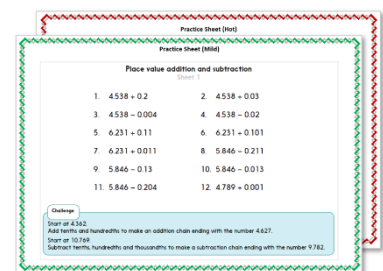
Add whole numbers: Mental & Written strategies

Each day covers one maths topic. It should take you about 1 hour or just a little more.

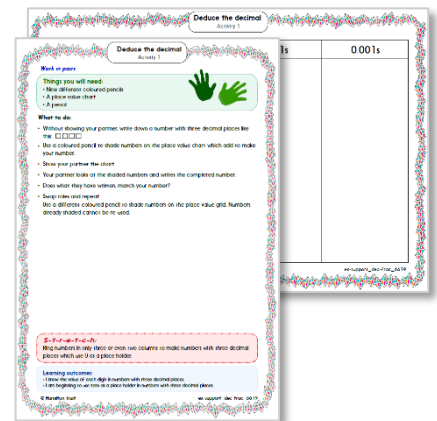
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



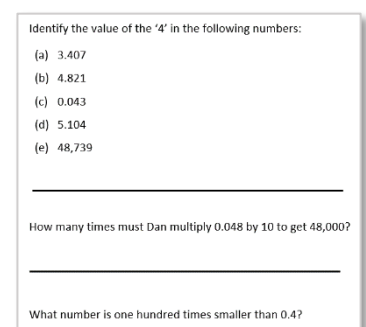
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



Learning Reminders

Add whole numbers: Mental & Written strategies.

Number	1000 more
46	1046
2279	3279
53,837	54,837
	1256
120,348	
	24,873

What are the missing numbers?

Learning Reminders

Add whole numbers: Mental & Written strategies.

Identify the missing numbers.

The diagram shows two subtraction equations. The first equation is $\square - 300 = 4268$. An orange curved arrow starts from the top of the first equation and points to the top of the second equation, with the label $+300$ above it. The second equation is $\square - 1000 = 40,278$.

$$\square - 300 = 4268$$
$$\square - 1000 = 40,278$$

We can use PLACE VALUE to answer these questions...

Learning Reminders

Add whole numbers: Mental & Written strategies.

Identify the missing digits.

$$\begin{array}{r} 6 \boxed{7} 4 \\ + 3 2 \boxed{6} \\ \hline 1 1 \\ \hline 1 0 0 0 \end{array}$$

$4 + 6 = 10$, to give 0 in the 1s column, and so one 10 must have been added to the 10s.

$6 + 3 + 1 = 10$, to give 0 in the 100s column and 1 in the 1000s column. That works!

$7 + 2 + 1 = 10$, to give 0 in the 10s column, and so one 100 hundred must have been added to the 100s.

Learning Reminders

Revise column addition of 4-digit and 5-digit numbers.

$$4267 + 2784 + 3832$$

Remember to leave a blank row above the answer line.

$$\begin{array}{r} 4267 \\ 2784 \\ + 3832 \\ \hline 111 \\ 10883 \end{array}$$

Add the 1s, then the 10s, then the 100s, then the 1000s.

$$67,342 + 8,352$$

Remember to leave a blank row above the answer line.

$$\begin{array}{r} 67342 \\ + 8352 \\ \hline 1 \\ 75694 \end{array}$$

It's really important to align the numbers to the right, according to their place value.

Practice Sheet Mild
Adding 3-digit and 4-digit numbers

1. $3575 + 2718$

5. $4578 + 234$

2. $5671 + 1482$

6. $8482 + 573$

3. $4289 + 245$

7. $7458 + 634$

4. $6582 + 1998$

8. $5678 + 3781$

Challenge

Write two additions with answers between 5000 and 10,000 where there are no 2s or 3s in any of the numbers.

Practice Sheet Hot
Adding 4-digit and 5-digit numbers

1. $63,789 + 24,845$

6. $45,782 + 2845$

2. $27,045 + 16,839$

7. $28,341 + 5294$

3. $34,578 + 26,284$

8. $34,784 + 3997$

4. $74,286 + 52,153$

9. $72,458 + 8725$

5. $58,482 + 34,619$

10. $56,794 + 7537$

Challenge

Write two additions with answers between 20,000 and 30,000 where there are no zeros or fives in any of the numbers!

Practice Sheets Answers

Adding 3-digit and 4-digit numbers (mild)

1. $3575 + 2718 = 6293$
2. $5671 + 1482 = 7153$
3. $4289 + 245 = 4534$
4. $6582 + 1998 = 8580$ quicker to work out mentally
5. $4578 + 234 = 4812$
6. $8482 + 573 = 9055$
7. $7458 + 634 = 8092$
8. $5678 + 3781 = 9459$

Challenge

Write two additions with answers between 5000 and 10,000 where there are no 2s or 3s in any of the numbers.

e.g. $4061 + 4694 = 8755$

Adding 4-digit and 5-digit numbers (hot)

1. $63,789 + 24,845 = 88,634$
2. $27,045 + 16,839 = 43,884$
3. $34,578 + 26,284 = 60,862$
4. $74,286 + 52,153 = 126,439$
5. $58,482 + 34,619 = 93,101$
6. $45,782 + 2845 = 48,627$
7. $28,341 + 5294 = 33,635$
8. $34,784 + 3997 = 38,781$ quicker to work out mentally
9. $72,458 + 8725 = 81,183$
10. $56,794 + 7537 = 64,331$

Challenge

Write two additions with answers between 20,000 and 30,000 where there are no zeros or fives in any of the numbers!

e.g. $11,226 + 8393 = 19,619$

Check your understanding

Questions

Two numbers add together to equal 10,000.

One of the numbers is 2308.

What is the other number?

At the start of June, there were 4548 toy cars in the shop.

During December, 8728 more toy cars were delivered and 9473 toy cars were sold.

How many toy cars were left in the shop at the end of December?

Write the four missing digits to make this addition correct:

$$\square 6 \square 8 + 3 \square 9 \square = 9019$$

Explain why it would be sensible to choose different methods to solve (a) and (b) below. Then solve both.

(a) $67,493 + 21,561$

(b) $50,005 + 9998$

Complete the addition by finding \square , \oplus and \triangle :

$$\begin{array}{r} 12\square 62 \\ + 938\oplus \\ \hline 2\triangle 251 \\ \hline \end{array}$$

Check your understanding

Answers

Two numbers add together to equal 10,000.

One of the numbers is 2308.

What is the other number? 7692

At the start of June, there were 4548 toy cars in the shop.

During December, 8728 more toy cars were delivered and 9473 toy cars were sold.

How many toy cars were left in the shop at the end of December? 3803

Write the four missing digits to make this addition correct:

$$5628 + 3391 = 9019$$

Explain why it would be sensible to choose different methods to solve (a) and (b) below. Then solve both.

(a) $67,493 + 21,561 = 89,054$ best solved by column addition as there are lots of different digits in each number and several instances where 'carrying' will be needed.

(b) $50,005 + 9998 = 60,003$ can be solved mentally with supporting jottings, by adding 10,000 and then subtracting 2.

Complete the addition by finding \square , \oplus and \triangle :

$$\begin{array}{r} 12862 \\ + 9389 \\ \hline 1111 \\ \hline 22251 \end{array}$$