

Learning Reminders

Revise column addition of whole numbers.

Adding **6345 + 1587** using compact column addition.

First add the 1s.

$$7 + 5 = 12.$$

The 2 goes in the 1s place in the answer line.

Put the 1 in the 10s place above the line.

Next add the 10s.

$$4 + 8 + 1 = 13.$$

The 3 goes in the 10s place in the answer line.

Put the 1 in the 100s place above the line.

Next add the 100s.

$$3 + 5 + 1 = 9.$$

The 9 goes in the 100s place in the answer line.

Finally add the 1000s.

$$6 + 1 = 7.$$

The 7 goes in the 1000s place in the answer line.

$$\begin{array}{r} 6345 \\ + 1587 \\ \hline 7932 \end{array}$$

Remember to leave a blank row above the answer line.

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Revise column addition of whole numbers.

Adding $45,782 + 52,476$ is just the same but with an extra digit!

First add the 1s.
 $2 + 6 = 8$.
The 8 goes in the 1s place in the answer line.

Next add the 10s.
 $8 + 7 = 15$.
The 5 goes in the 10s place in the answer line.
Put the 1 in the 100s place above the line.

Next add the 100s.
 $7 + 4 + 1 = 12$.
The 2 goes in the 100s place in the answer line.
Put the 1 in the 1000s place above the line.

$$\begin{array}{r} 45782 \\ + 52476 \\ \hline 98258 \end{array}$$

Next add the 1000s.
 $5 + 2 + 1 = 8$.
The 8 goes in the 1000s place in the answer line.

Finally add the 10,000s.
 $4 + 5 = 9$.
The 9 goes in the 10,000s place in the answer line.

Learning Reminders

Revise column addition of whole numbers.

Adding **52,378 + 3641.**

One number has 5 digits one
number has 4 digits.

Reading the numbers out aloud can help check that
they are lined up correctly.
Three thousand should be directly under two
thousand, six hundred under three hundred and so on.

$$\begin{array}{r} 52378 \\ + 3641 \\ \hline \end{array}$$

Now find the answer! 

Answer
56,019

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Revise column addition of whole numbers.

Adding **4789 + 2998**

Sometimes it is quicker to use a mental method to add.

2998 is very close to 3000.

We can add 3000 to 4789:
 $4789 + 3000 = 7789$.

As 3000 is 2 more than 2998
subtract 2 to compensate:
 $7789 - 2 = 7787$.

Look for other examples like this in today's activities.

Practice Sheet Mild

Adding 3-digit and 4-digit numbers

Answer each question using compact column addition.
But, look out for one which would be quicker to calculate mentally.

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

Answer each question using compact column addition.

But, look out for one which would be quicker to calculate mentally.

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

A Bit Stuck? Addition mission

$482 + 286 =$

$$\begin{array}{r} 400 \quad 80 \quad 2 \\ + 200 \quad 80 \quad 6 \\ \hline \\ \hline \end{array}$$

$654 + 268 =$

$$\begin{array}{r} 600 \quad 50 \quad 4 \\ + 200 \quad 60 \quad 8 \\ \hline \\ \hline \end{array}$$

$287 + 642 =$

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

$749 + 244 =$

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

$385 + 247 =$

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

$387 + 327 =$

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

$258 + 584 =$

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



Investigation Football Crowds



	Arsenal	59,999
	Bournemouth	9,532
	Chelsea	40,437
	Crystal Palace	25,455
	Everton	38,780
	Huddersfield	22,202

	Liverpool	52,983
	Manchester Utd.	74,498
	Newcastle	51,121
	Tottenham	54,216
	Watford	20,003
	Wolves	31,137

The table shows average attendance at some Premier League football grounds last season. Use the information in the table to solve these **addition** problems.

For each problem try to answer **first** by rounding and estimating, then **check** by adding.

1. Find two teams whose total attendance is less than 30,000.
2. Find two teams whose total attendance is very close to 90,000.
3. Find two teams whose total attendance is very close to 60,000.
4. Emma said that the combined total attendance for Everton and Wolves is greater than 70,000. Is she correct?
5. Peter said that the combined total attendance for Tottenham and Chelsea is less than 90,000. Is he correct?
6. What is the total of Manchester United and Liverpool's attendance?
7. Can you find two more teams whose total attendance is also greater than 100,000?
8. Beth said that she can use a mental strategy to add Watford's attendance to any other team's attendance. What strategy did she use? Give some other examples adding to Watford to show how this works.
9. Tariq said that he can use a mental strategy to add Arsenal's attendance to any other team's attendance. What strategy did he use? Give some other examples adding to Arsenal to show how this works.