

Maths- Week 1 (22.06.2020) Resources

Add three 3-digit numbers using compact addition and use rounding to approximate.

$426 + 257 + 582$
 $275 + 446 + 385$
 Estimate the answer to each addition.

Let's use **compact addition** to find the exact answer to $426 + 257 + 582$.

$$\begin{array}{r} 426 \\ 257 \\ + 582 \\ \hline 1265 \end{array}$$

Now work out the exact answer to $275 + 446 + 385$. Compare the answer with your **estimate**.

How does the answer compare with your **estimate**?

$726 + 457 + 582$
 Round to the nearest 100 to estimate the answer and then find the exact total.

$327 + 178 + 635$
 $425 + 217 + 334$
 Which will have a total more than 1000? How can you tell?

- | | |
|------------------|------------------------|
| 1. $428 + 347 =$ | 1. $235 + 419 + 317 =$ |
| 2. $539 + 218 =$ | 2. $463 + 182 + 323 =$ |
| 3. $482 + 396 =$ | 3. $478 + 396 + 314 =$ |
| 4. $518 + 284 =$ | 4. $546 + 279 + 384 =$ |
| 5. $493 + 267 =$ | 5. $821 + 431 + 218 =$ |
| 6. $826 + 715 =$ | 6. $739 + 218 + 426 =$ |
| 7. $724 + 693 =$ | 7. $863 + 471 + 352 =$ |
| 8. $685 + 496 =$ | 8. $876 + 485 + 567 =$ |

Using compact addition to add amounts of money

$£3.55$
 $+ £2.76$
 $\quad 11$
 $\hline £6.31$

Explain to your partner how this was done, talking through each stage.

Can you see how the 5p and 6p were added to make 11p, a 1 written under the pennies and the one 10p written under the 10p column waiting to be added to the other 10ps?

Then 50p, 70p and 10p were added to make £1.30, the 3 written under the 10ps and the £1 under the pounds to be added to the £3 and £2.

$$£4.25 + £3.69$$

Complete the expanded addition and then the compact addition at the side.

$$\begin{array}{r} \quad \text{£4} \quad 20\text{p} \quad 5\text{p} \\ + \quad \text{£3} \quad 60\text{p} \quad 9\text{p} \\ \hline \quad \text{£7} \quad 90\text{p} \quad 4\text{p} \end{array}$$

$$\begin{array}{r} \quad \text{£4.25} \\ + \quad \text{£3.69} \\ \hline \quad \text{£} \end{array}$$

The total is _____

$$£5.75 + £2.63$$

Complete the expanded addition and then the compact addition at the side.

$$\begin{array}{r} \quad \text{£5} \quad 70\text{p} \quad 5\text{p} \\ + \quad \text{£2} \quad 60\text{p} \quad 3\text{p} \\ \hline \quad \text{£1} \\ \quad \text{£8} \quad 30\text{p} \quad 8\text{p} \end{array}$$

$$\begin{array}{r} \quad \text{£5.75} \\ + \quad \text{£2.63} \\ \hline \quad \text{£} \end{array}$$

The total is _____

Draw two sets and label them 'More than £10' and 'Less than £10'.

Estimate the totals and write these additions in the correct set.

Then choose two from each set to solve.

$$£7.25 + £2.49$$

$$£6.49 + £4.25$$

$$£8.85 + £1.30$$

$$£6.49 + £3.65$$

$$£5.35 + £4.59$$

$$£4.89 + £4.79$$

Estimate the total to the nearest pound and then use compact column addition to find the total for each addition.

$$£4.25 + £3.69$$

$$£5.75 + £2.63$$

$$£6.69 + £1.35$$

$$£5.75 + £3.89$$

$$£4.68 + £3.55$$

$$£9.25 + £3.32$$

$$£8.29 + £7.35$$

$$£6.79 + £5.25$$

Draw two sets and label them 'More than £10' and 'Less than £10'.

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$$£7.25 + £2.49$$

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$$£8.85 + £1.30$$

$$£6.49 + £3.65$$

$$£5.35 + £4.59$$

$$£4.89 + £4.79$$

Problem solving and reasoning questions

Write these two numbers in expanded form, i.e. as hundreds + tens + ones:

- 475
- 205

Add them mentally; write the total.

Complete these using column addition:

- i. $367 + 272$
- ii. $548 + 237$
- iii. $479 + 258 + 382$
- iv. $£6.29 + £5.75$

Write the missing numbers in this calculation:

$$£10.64 = £4.8\Box + £\Box.\Box7$$

Use expanded column subtraction to subtract 3-digit numbers

Let's use expanded column subtraction to find the answer to $782 - 467$.

First **partition** the numbers and set them out neatly.

What's the first step? We can't work out $2 - 7$ without using negative numbers, so what do we do?

700, 70 and 12 still adds to 782, so we've not changed the total, just moved an amount from one column to another. We have **partitioned** the number in a different way.

Now subtract the 10s. $70 - 60 = ?$

Subtract the 100s. $700 - 400 = ?$

Finally recombine 300, 10 and 5.

$$\begin{array}{r} 70 \ 12 \\ 700 \ \cancel{80} \ \cancel{2} \\ - 400 \ 60 \ 7 \\ \hline 300 \ 10 \ 5 \end{array}$$

$782 - 467 = 315$

- 1. $963 - 428 =$
- 2. $751 - 226 =$
- 3. $824 - 552 =$
- 4. $615 - 361 =$
- 5. $793 - 437 =$
- 6. $850 - 628 =$
- 7. $628 - 465 =$
- 8. $926 - 873 =$

Use column subtraction to subtract 3-digit numbers

Let's use **expanded** column subtraction to work out $725 - 484$.

Now watch while I do the same subtraction using the **compact** layout.

There were 7 hundreds, 1 hundred has been added to the tens to make 12 tens, leaving 6 hundreds.

$$\begin{array}{r} 600 \ 120 \\ \cancel{700} \ \cancel{20} \ 5 \\ - 400 \ 80 \ 4 \\ \hline 200 \ 40 \ 1 \end{array}$$

$725 - 484 = 241$

$$\begin{array}{r} 6 \ 12 \\ \cancel{7} \ \cancel{2} \ 5 \\ - 4 \ 8 \ 4 \\ \hline 2 \ 4 \ 1 \end{array}$$

- 1. $973 - 328 =$
- 2. $745 - 367 =$
- 3. $925 - 481 =$
- 4. $713 - 572 =$
- 5. $640 - 328 =$
- 6. $827 - 542 =$
- 7. $823 - 567 =$
- 8. $745 - 347 =$

Choose at least two subtractions to work out using a mental strategy.
You can make jottings.

Choose at least four subtractions to work out using column subtraction.

$804 - 578$

$834 - 416$

$879 - 725$

$964 - 521$

$645 - 271$

$720 - 685$

$845 - 428$

$637 - 454$

$914 - 698$

$724 - 518$

Problem solving and reasoning questions

Write these two numbers in expanded form, i.e. as hundreds + tens + ones:

- 749
- 321

Mentally find the difference between them.

Write the answer.

Complete these using column subtraction:

(i) $538 - 264$

(ii) $783 - 427$






(iii) $446 - 382$

(iv) $621 - 355$

Write the missing numbers in this calculation:

$88\square - 3\square7 = 535$

English- Week 1 (22.06.2020) Resources

 <h3 style="margin: 0;">Recount Writing</h3> <h4 style="margin: 0; color: orange;">Diary Entry</h4>			
I have:			My best bits are:
described the places where the events happened			
included an introduction to set the scene			
written in the past tense			
used personal pronouns: I, we, my, me			
talked about important events			I could have... 
talked about feelings			
used paragraphs to organise the events			
used time conjunctions: first, then, next, after			

Formal Letter Writing

