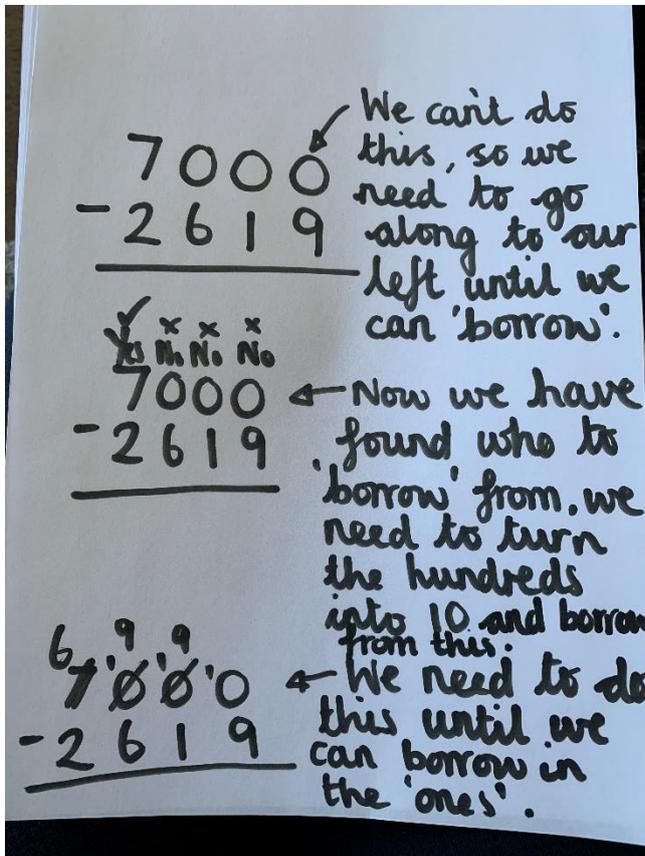


Here are your maths tasks for this week- please use the book provided to complete the tasks ☺ We normally do maths Monday-Thursday, with Friday being our day for Mathletics and Times table rockstars to consolidate other areas of learning. Please see the Times table sheet for suggested activities. I've attached an arithmetic paper for Friday to complete this week too ☺

Monday

This week, we will have a focus on addition and subtraction using the column method. For this first activity, I would like you all to go onto the website below and generate a random 4 digit number. I would then like you to write this number down and then generate another number. Add both of these together then using column addition. Do this 4 times. Then do this again, but this time subtracting the numbers generated. Do this 4 times. You should now have completed 4 addition sums and 4 subtraction sums. Remember, when you are subtracting a number such as 7000, have a look at my guidance below to help you.

<http://numbgenerator.org/randomnumbgenerator/1000-9999>



Challenge: What is the missing four digit number?

$$\begin{array}{r} \boxed{?} \boxed{?} \boxed{?} \boxed{?} \\ + \boxed{6} \boxed{3} \boxed{9} \boxed{5} \\ \hline \boxed{8} \boxed{9} \boxed{4} \boxed{9} \\ \hline \end{array}$$

1

Tuesday

Today, we will be looking at using our rounding skills to estimate some answers to some addition and subtraction problems. To estimate, what you need to do is round the two numbers to the nearest 1000, 100 or 10 and then add/subtract them. This gives you an 'estimate' which is a posh word for 'guess' so that when you actually work out the sum properly, you will know if your answer is correct or not.

For example

3456 – 1224 I would round this to 3000 – 1000= 2000.

Now when I work out the problem properly I get this number:

- 3456

1224

2232

Which if I rounded that to the nearest 1000 would give me 2000. So I know my answer is correct 😊

Task

Try this with the sums below. Estimate them first in your red books and then work out the actual answer. **Are you right?** Give yourself a tick if you are. If not, have another look and try it again- **can you check to see if you have rounded to the nearest 1000/100/10?** Remember 1, 2, 3 and 4, we don't change this anymore. 5, 6, 7, 8 and 9, we round these up, all the time. ***YOU ONLY HAVE TO ROUND TO EITHER 1000, 100 OR 10 FOR EACH SUM, DO NOT ROUND TO 1000, 100 AND 10 UNLESS YOU REALLY WANT TO CHALLENGE YOURSELF!***

1. 3784 – 1653 =

2. 6243 + 1645 =

3. 7263 – 4184 =

4. 7263 + 6253 =

5. 8273 – 1762 =

6. 1623 + 2653 =

Challenge:

The estimated answer to a calculation is 3,400.

The numbers in the calculation were rounded to the nearest 100 to find an estimate.

What could the numbers be in the original calculation?

Wednesday

Today, we will be looking at using the inverse operation (doing the opposite) to help us work out some missing number problems. For example if I had this problem:

$$1234 + \underline{\quad\quad} = 4567$$

We need to find out what the missing number is. We know we cannot do $1234 + 4567$ as the number in the middle would then be bigger than the answer! This is when we need to use the inverse operation- do the opposite. What's the opposite of add? Subtract/take away! When we do a take away, the biggest number always goes on top and the smaller number goes on the bottom of our column.

$$4567 -$$

$$\underline{1234}$$

3333 We can then check our answer by doing the whole sum again including the missing number that you have just worked out to see if it is correct.

$$1234 +$$

$$\underline{3333}$$

$$4567$$

Sometimes, you may be asked to use the inverse to check to see if sums are correct. For example if you had $1234 + 3333 = 4567$, what subtraction could you do to check to see if the answer is correct? We know in subtractions the biggest number always goes first, so we could do $4567 - 3333 =$ or also $4567 - 1234 =$. The answer should be the remaining number in the sum and if it isn't, the sum is incorrect.

Task

Let's see if you can give the inverse operation a go with these missing number sums below:

1. $3456 + \underline{\quad\quad} = 6534$
2. $5634 - \underline{\quad\quad} = 1265$ (Be careful- do we need to do the opposite here?)
3. $\underline{\quad\quad} + 7263 = 9876$
4. $\underline{\quad\quad} - 1653 = 8734$
5. $9283 + \underline{\quad\quad} = 13,765$

Can you use the inverse to see if these sums are correct or incorrect? Write them in your red book with a tick if they are right or a cross if they are wrong.

1. $6574 + 1542 = 8116$
2. $7263 - 1652 = 5384$
3. $8263 + 2634 = 10,876$
4. $5273 - 2834 = 2439$

Challenge:

$$2,300 + 4,560 = 6,860$$

Use a subtraction to check the answer to the addition. Is there more than one subtraction we can do to check the answer?

Thursday

Today, we will be using our addition and subtraction skills to help us answer some one and two step problems. Use the information below to help you:

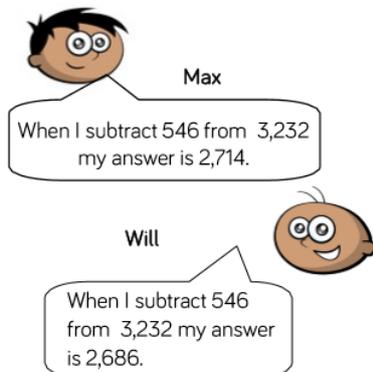
Words that mean the same as add: increase ~ how many more ~ altogether ~ sum ~ total ~ combined
Steps to solving word problems. 1. Read the whole problem through. 2. Underline the key information and then think- what is the question asking me to do? 3. Choose the right operations e.g. + or -. Be careful- there might be 2 parts to get to the answer. 4. Always check your answer – a good opportunity to use the inverse operation!
Words that mean the same as subtract: difference ~ less than ~ fewer than ~ decrease ~ minus ~ left ~ change

Use those words above to help you decide whether you are doing an add, a take away/subtract or maybe if you are doing a two-step problem, you could be doing two adds and a subtract. Use the column method to work out the answers. You can do this! We've done this before 😊

1. Miss Cable had 3456 books in one book shelf and 1287 books in another bookshelf. How many books did she have altogether?
2. Miss Budden had 1345 labelled books and she had already labelled 7534 books. Miss Cable took 2763 of those books away to use. How many labelled books does she have left? (THINK ABOUT 2 STEP)
3. Jack had collected 5678 coins on Thursday and 4352 on Friday. He then collected a further 1273 on Saturday. How many coins does he have now? (THINK ABOUT 2 STEP)
4. James has 3764 pens and 1923 pencils. When he checked them, 2634 were broken so he put them in the bin. How many pens and pencils does he have left? (THINK ABOUT 2 STEP)
5. Sarah has 2763 lollypops and 3094 bags of crisps. She then bought 5837 tubs of ice cream. How many lollypops, bags of crisps and tubs of ice cream does she have altogether?
6. Lila went to the shop and bought an electric car for £1456 and an electric scooter for £3764. She paid with £5000. How many change did she get?

Challenge:

Max and Will solve a problem.



Who is right?
Which answer is correct?
Explain your reasons why.
Why is one of the answers wrong?

Friday

TT rockstars/Mathletics/Arithmetic test ☺

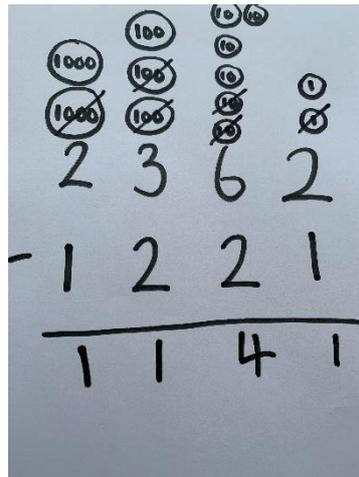
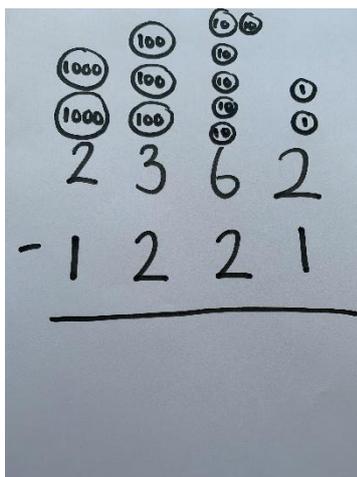
Help for this week

If your child is struggling with this element of the work this week, here are some helpful videos to watch/strategies to use to help them:

https://www.youtube.com/watch?v=Ttdzw_350ZI - Addition column method

<https://www.youtube.com/watch?v=IzlyN2-uLSU> - Subtraction column method

Number cards- Keep practising adding and subtracting by using number cards. You can make number cards at home- use any 4 digit number and pop that onto a card. Make another small pack of cards with + or – on them. Place the number cards upside down and you choose one number and let your child choose another. Then get them to choose an ‘operation’ card (either + or -). Then work it out, starting from the ones first (right to left). Use your fingers if needed to complete the sums or draw the biggest number out in place value counters and take/add the bottom number from these e.g.



Estimating

This website below has lots of different games that you can play to continue your child to develop their rounding skills:

<https://garyhall.org.uk/maths-objectives/110/round-any-number-to-the-nearest-10-100-or-1000>

There are also great videos here for rounding to the nearest 10, 100 or 1000:

<https://www.khanacademy.org/math/arithmetic-home/arith-place-value/arith-rounding/v/examples-rounding-to-the-nearest-10-and-100>