Learning Letter – Maths

Hi Year 3!

This week's maths topic is **division!** We will be looking at dividing using the inverse of known multiplication facts, repeated subtraction as division and using the 'bus stop' method!

Happy Home Learning 😊

Lesson	Learning Outcome and Task
Lesson 1	**Can you use multipllication facts to divide by 3, 4 and 8?** Use known multiplication facts to solve division sums. E.g. What is $32 \div 8 =$ I can use the inverse – **?** x 8 = 32 I know that **4** x 8 is 32 so I know that **32 ÷ 8 = 4** Use this to solve the following divisions. a) 30 ÷ 3 = b) 36 ÷ 3 = c) 16 ÷ 4 = d) 64 ÷ 8 =
Lesson 2	**Can you divide using repeated subtraction?** Follow the steps to success to solve the division sums using repeated subtractions: *Write the division number sentence. *Draw a line using a ruler. *Write the dividend (the first number) on the right at the end of your number line. *Jump backwards in jumps of the divisor until you reach 0. *Count the jumps. *Write the number of jumps as your answer. **20 ÷ 4 =** **20 ÷ 4 = 5** 20 is the **dividend** 4 is the **divisor** the subtractions you jump back in
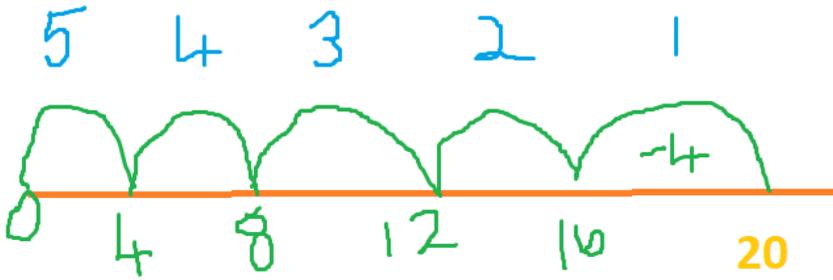
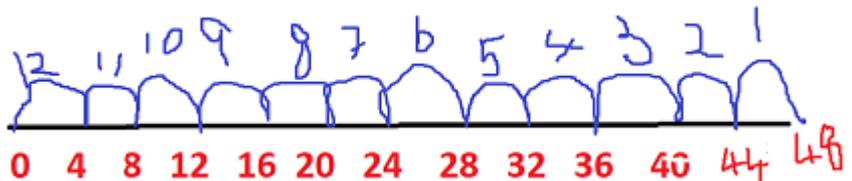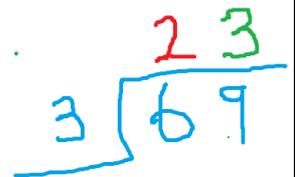| Lesson 3	**Can you solve division problems?** Use your knowledge of multiplications facts or repeated subtraction to solve the division problems. Some of the problems may require two steps that you have to solve. For example: There are 29 children in Year 3, Class A and 19 children in Year 3 Class B. All of year group need to get into groups of 4 for a game. How many groups would there be? The first part that needs to be solved is how many children are in the class altogether. So, 29 + 19 = 48 Now, these 48 children need to be put into groups of 4 which means are division sum is **48 ÷ 4 =** I can either use my knowledge of multiplication facts: __ x 4 = 48 **12** x 4 = 48 so, **48 ÷ 4 = 12** Or…
Lesson 4	**Can you divide using the bus stop method?** **Follow these steps:** 1. Write the number in the formal written method – place the number you are dividing in the 'bus stop' and the divisor (the number you are dividing by) outside the bus stop. 2. Start with the tens – divide the tens by the divisor e.g. how many 3's go into 6 tens -60? 3.Then divide the ones – How many 3's go into 9 ones?
Lesson 5	**Can you divide using the bus stop method with remainders?** Follow the steps to complete the bus stop method. Remember you can use a number line, known multiplication facts or a place value grid and counters to support your work too. **Steps to Success:** 1. Write the number in the formal written method – place the number you are dividing in the 'bus stop' and the divisor (the number you are dividing by) outside the bus stop. 2. Start with the tens – divide the tens by the divisor e.g how many 4's go into 6 tens (60)? It goes 1 time and there are 2 tens leftover, you MUST CARRY THE TENS OVER!
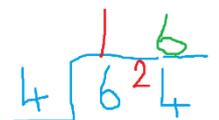
3.Then divide the ones, not forgetting to include the carried over tens e.g. How many times does 4 go into 24?
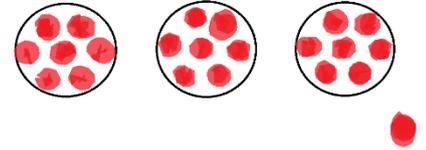
OR
* If you can, find the nearest division/multiplication fact, calculate the division. E.g. you know that 3 x 7 = 21 so 22 would be 7 with 1 remainder
*If not, use a numberline or place value counter to support your workings.
*The amount left over is your remainder.
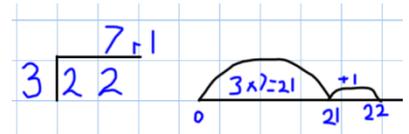
Share 22 out into 3 equal groups anything leftover is your remainders.

Don't forget you should still be practising your times tables weekly as well! Make sure your 3,4 and 8 are super speedy before moving onto to your 7 and 9 times tables. You can still be using mathletics and purple mash too for any extra work, times tables practise or just for fun!