Mrs Gordon's Maths

Term 4 Week 2

Success Criteria	Achieved?	
	Me	Adult
• Work independently	☐	☐
• Use your prior knowledge	☐	☐
• Recall division facts	☐	☐
• Identify patterns	☐	☐

In the table below write the 9x table to a multiple of 12. I have written the first one for you.

9 x 1 = 9

Now I want you to write the inverse (this means opposite) equations. So you are now going to work out some division equations.

Do you notice any patterns from the answers you found in the 9x tables?

What happens when you add the digits of the answers together. So, for example 9 x 2 = 18. If you add 1 + 8, what is the answer. Do this for all of the answers and see what patterns you notice.

Success Criteria	Achieved?	
	Me	Adult
• Work independently	☐	☐
• Use your prior knowledge	☐	☐
• Recall division facts	☐	☐
• Identify patterns	☐	☐

In the table below write the 7x table to a multiple of 12. I have written the first one for you.

7 x 1 = 7

Now I want you to write the inverse (this means opposite) equations. So you are now going to work out some division equations. I have left them blank so you can fill them in.

Do you notice any patterns from the answers you found in the 7x tables?

<u>Learning Intention: To solve word problems using multiplication and division facts.</u>

Success Criteria	Achieved?	
	Me	Adult
• Work independently	☐	☐
• Identify key information in the question	☐	☐
• Show your working	☐	☐

1. There are 8 chocolates in a bag, and Josef has 6 bags to sell. How many chocolates are there in total?

2. Sarah gets £12 pocket money from her parents every day of the week if she does all of her chores. How much pocket money would she get in a week?

3. The farmer plants carrots in rows of 9. He decides to plant 7 rows. How many carrots are there in total?

4. If I save £21 in one week (saving an equal amount each day), how much money do I save each day?

5. My teacher decided to reward us with a pizza party at the end of last week. There are 15 people in my class, and each person is allowed 2 pieces of pizza. A pizza has 7 slices, how many pizzas does she need to buy?
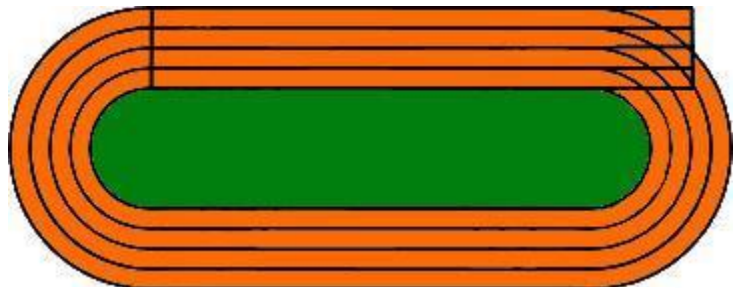
6. It takes 24 minutes for Jessica to ride her bike to school. On the way, she stops at regular intervals to retie her shoelaces. She stops 4 times on her trip. How many minutes were between each stop?

7. Francis is very good at hurdles. She can jump 9 hurdles in a 200m race. However, Johnathon can jump twice as many. How many hurdles can he jump ?

Success Criteria	Achieved?	
	Me	Adult
• Work independently	☐	☐
• Underline all the important information	☐	☐
• Form an opinion	☐	☐
• Write a plan, using prior knowledge of measures	☐	☐

Imagine you are building a new Olympic stadium and you are responsible for designing and marking out the running track. The track needs to fulfil the following specifications:

- The distance around the inside edge of the inner lane should be 400m.
- There should be 8 lanes.
- Each lane should be 1.25m wide.
- The track should consist of two straight sections joined by two semi-circular sections.
- The straight sections should each be 85m in length (a straight section is extended over the curve for the 100m race, as shown below).

Can you work out where each runner should start so that they all run 200m in total?

For the 400m race, the runner in lane 1 does one complete lap of the track, so the start line is the same as the finish line. The runners in lanes 2 to 8 again have a staggered start.

Can you work out where each runner should start so that they all run 400m in total?