## Home learning 1R maths

Multiplication


Who has made equal groups?

There are three groups. Each

Multiplication
Allow children to explain similarities and differences in groups. Then they need to explain who (Sally or Sam) did make three equal groups.
group has four biscuits.
These are equal groups.
There are three groups.
One group has three biscuits.
The other two groups have 5 biscuits,
These are not equal groups.

## Multiplication

We used paper plates but circles drawn on the floor with chalk, pieces of paper, dishes could be used. The important thing is that they get an opportunity to practically make equal groups.


## Guided Practice

## Multiplication

Show children the groups.
Discus which groups have equal quantities which do not

The important aspect is that they understand the language equal means exactly the same.



## Multiplication

So now this is independent! If children have grasped all concepts they will do this easily if not go back and revisit previous sessions.

Children draw the equal groups (fish tanks and fishes) then write the corresponding sentence.


Multiplication
Just let them run with this now!!! (hopefully!!!)
$\square$ groups

Each group has $\square$
flowers.


There are flowers
altogether.

## Multiplication

So now it should just come naturally so let's push them further!

Once complete ask them to draw a part whole model that represents the equation. Tell them 12 is the whole number


## Multiplication

Now they have the basis, they can count in 10's they can make equal groups so can they apply what they know independently?

Give them this they can read it , it promotes reading for meaning can they explain/ draw how to find the answer?

Here are the grapes in the fruit shop.

Max wants to buy 40
grapes. Are there enough? How many equal bunches of grapes will he have?

## Multiplication

Well you little clever clogs do this then!!!! And of course you do not need help to do it you need to show us how you did it with drawings or calculations.

Eg 14 lots of 2 = 28 Jessica wants 10 pets. 28 is more than 10 , yes there are enough.
 eng.


## Multiplication session 2

This is just a revision make sure they recall their session yesterday. Quick discussion.


## Do you agree that each tank has

 equal amounts of fish?
## Multiplication session 2

Again quick discussion, are they secure with the language equal


How many fish are there altogether? How can you tell?

## Multiplication session 2

So now we are teaching our lambs to understand the language equal and understand equal is the beginning of multiplication. When they are talking about 4 groups of 5 they find this annoyingly difficultpreserve, please.


## Multiplication session 2

Talk this through make the groups see the groups understand them.


There are 3 pots, do you disagree?
3 pots of $2=6$
3 groups of $2=6$
3 twos $=6$

There are 6 flowers.

## Multiplication session 2

Ask children to explain what they can see. How many groups are there? Are they equal, how do you know? How many bugs are there altogether? Explain how you know....

If they say five lots of 3 is 15 you have smashed it!!!!


## Multiplication session 2

Discuss model writing the sentence explain the sentence and get them to discuss their ideas too. Children draw and copy sentences.


## Multiplication session 2

Independent - no help!
Children draw bears write sentences.


# Multiplication session 2 

Again another task to be completed independently. Good luck lambs, I know you can do it!!!!

## Multiplication session 2

Keep going- pleas draw a bar model to show this calculation too.


## Multiplication session 2

Remember this????

Independent-record in your books


Independent- record in your books


## Multiplication session 3

So now they are beginning to identify the patterns in numbers as they make equal groups.



## Multiplication session 3

Clarify their thinking ensure they understand repeated addition. In addition they now need to understand there are 6 groups of three $3+3+3+3+3+3=18$


## Multiplication session 3

So now lets put the same idea into another concept.
How many equal groups are there? (2) how many soldiers in each group? (10) 2 lots of 10 equals 20
$10+10=20$

- 9 fififififi ififififif

There are 10 toy soldiers in one row. 2 tens $=20$<br>There are 20 tey soldiers altogether:

## Multiplication session 3

Its so important that child get the opportunity to manipulate equipment. Let them make these groups (arrays!!!) give them different values (multiples of $18,8,15,25,5,100$ ) make groups (arrays of 2,5, 10's)


## Multiplication session3

Hey up! How far have they come???? I love their enthusiasm and desire to learn! Guys you are amazing!!!

Discuss the x sign. Please.


## Multiplication session 3

Draw the donuts write the sentences and write the extended calculations too (repeated addition) then the $x$ sentence if understanding it.


## Multiplication session 3

Get children to draw the
sweets record as in previous sessions. How many groups? 3 lots of four equals etc

Tom has 3 bags. He puts 4 sweets in each bag.


How many sweets does he have altogether?

$$
\begin{array}{l|l}
\hline 4+4+4 & 4 \times 3
\end{array}
$$

## Multiplication session 3

Get children to draw the fish record as in previous sessions. How many groups? 2 lots of seven equals etc $7+7=$


Abbie has 2 fish bowls. She puts 7 fish in each bowl.


How many fish does Abbie have altogether?

