

Mrs Cowan's Maths Group – Home Learning

Week commencing: 22nd February 2021

As in previous weeks, these home learning lessons are specifically designed for my maths group and follow what we would have been learning in school this week.

Each lesson includes:

- a rapid recall warm up
- the main lesson (a 5-10 minutes recorded input by myself)
- an activity for your child to complete independently
- a challenge for your child to complete if they have quickly grasped the independent activity

This week's lessons develop our learning of multiplication and focus on using calculations for the 2, 5 and 10 times tables.

Please remember that if you are unable to print the resources just use them as a guide and write down the relevant parts or request a paper pack via the school office.

Class Dojo can be used to contact me if you have any questions.

Thank you again for your continued support, Mrs Cowan

Mrs Cowan's Maths Group – Home Learning

Lesson 1 – investigating arrays

- Warm Up:
Ask your child to quickly write out the doubles of numbers from double 0 to double 20 as addition calculations. They can check them in the lesson video.
- Watch Mrs Cowan's lesson video at <https://youtu.be/Xw1vSi54ZVs>
They will need: doubles counting warm up, 20 small objects / counters and their whiteboard and pen or paper and pencil.
- Ask your child to complete Activity 1 by using 20 counters/small objects to investigate how many different arrays they can make with exactly 20 counters/objects. They should draw a simple picture of each array and write the repeated addition and multiplication number sentences.

Encourage your child to work systematically perhaps starting with 1×20 and 20×1 . Then moving on to 2×10 and so on.

- Challenge: Doubles challenge cards

Ensure your child writes the repeated addition and multiplication calculations when responding.

Lesson 2 – the two times table

- Warm Up:
Ask your child to count in 2s starting at 1 (therefore using odd numbers).
- Watch Mrs Cowan's lesson video at <https://youtu.be/GToBxr6Ccls>
They will need: whiteboard and pen or paper and pencil.
- Ask your child to complete Activity 2.
- Challenge: The 2 Times Table

Ensure your child has read and understood all of the clues before they start.

Encourage them to think of the smallest number that could go in the circle and then decide whether or not that total could go in the square. Also, encourage them to work systematically to find all of the possible combinations. There are 3 possible combinations: $2 \times 6 = 12$, $2 \times 8 = 16$ and $2 \times 10 = 20$

Lesson 3 – the five times table

- Warm Up:
Ask your child to count in 5s backwards from 100.
- Watch Mrs Cowan's lesson video at <https://youtu.be/VTs9dt3FVqo>
They will need: whiteboard and pen or paper and pencil.
- Ask your child to complete Activity 3.
- Challenge: The 5 Times Table

Encourage your child to work systematically through each person and to write repeated addition and multiplication calculations for each person's toppings.

Mrs Cowan's Maths Group – Home Learning

Lesson 4 – the ten times table

- Warm Up:
Ask your child quick fire questions about multiples, for example: How many multiples of 2 in 20?
- Watch Mrs Cowan's lesson video at <https://youtu.be/ognni1Fenzc>
They will need: whiteboard and pen or paper and pencil.
- Ask your child to complete Activity 4.
- Challenge: The Ten Times Table

Encourage your child to think about what they know and which information is important.
Encourage them to think carefully about which calculations to use and they can draw pictures to help.

Mrs Cowan's Maths Group – Home Learning

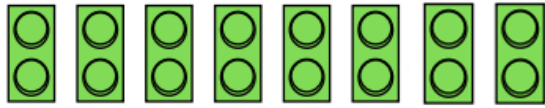
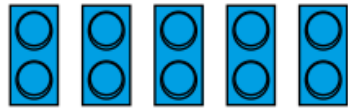
Activity 1

How many arrays can you make using exactly 20 counters / objects each time?

Draw a simple picture of each array (for example circles) and write the repeated addition and multiplication calculations next to it.

Activity 2

Write the multiplication calculations for these pictures:



Fill in the missing numbers.

$$3 \times 2 = \square$$

$$6 \times \square = 12$$

$$5 \times 2 = \square$$

$$\square \times 2 = 14$$

$$9 \times 2 = \square$$

$$\square \times 2 = 20$$

$$11 \times 2 = \square$$

$$\square \times 2 = 24$$

Solve this problem.

Annie's plane flew twice as far as Amir's.
Amir's plane flew 9 metres.
How far did Annie's fly?



Use $<$ $>$ or $=$ to compare these calculations.

Work out all of the multiplication calculations first.

$$8 \times 2 \bigcirc 4 \times 2 + 4$$

$$4 \times 2 + 4 \times 2 \bigcirc 8 \times 2$$

$$4 \times 2 + 4 \bigcirc 6 \times 2 + 2$$

$$4 \times 2 + 2 \times 2 + 3 \bigcirc 8 \times 2$$

$$7 \times 2 + 2 \times 2 \bigcirc 9 \times 2$$

Activity 3

Write the multiplication calculations for these pictures:



Fill in the missing numbers.

$$3 \times 5 = \square$$

$$7 \times \square = 35$$

$$6 \times 5 = \square$$

$$\square \times 5 = 10$$

$$8 \times 5 = \square$$

$$\square \times 5 = 20$$

$$9 \times 5 = \square$$

$$\square \times 5 = 25$$

Solve this problem.

Here is Amir's money.



$$4 \times 5p = 20p$$

Here is Alex's money.



How much money do they have altogether?

Use $<$ $>$ or $=$ to compare these calculations.

Work out all of the multiplication calculations first.

$$2 \times 5 \bigcirc 5 \times 2$$

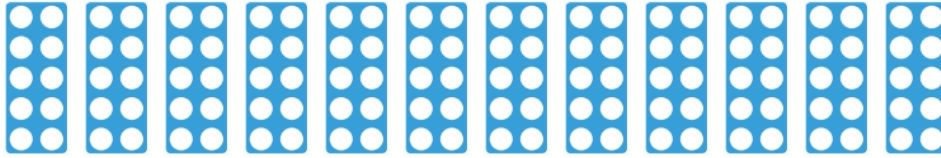
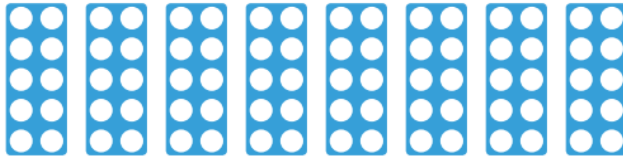
$$4 \times 5 + 2 \times 5 \bigcirc 6 \times 5$$

$$4 \times 5 + 5 \bigcirc 5 \times 5 - 5$$

$$4 \times 5 + 2 \times 5 + 8 \bigcirc 7 \times 5 + 2$$

Activity 4

Write the multiplication calculations for these pictures:



Fill in the missing numbers.

$0 \times 10 = \boxed{}$

$10 \times \boxed{} = 0$

$10 \times 10 = \boxed{}$

$\boxed{} \times 10 = 10$

$11 \times 10 = \boxed{}$

$\boxed{} \times 10 = 90$

$12 \times 10 = \boxed{}$

$\boxed{} \times 10 = 130$

Solve this problem.

Dexter has got some 10 pence coins.



How many coins has he got?

How much is each coin worth?

How much money does he have in total?

True or False?

a)	2×10	$>$	5×10
b)	10×3	$=$	$10 + 10 + 10$
c)	$10 + 10$	$=$	10×1
d)	100	$<$	10×10
e)	10×0	$<$	10×8