## Week 13, Day 2 <br> Multiplication

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the PowerPoint presentation with a teacher or another grown-up.


OR start by carefully reading through the Learning Reminders.
2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders

Multiply using arrays and beaded lines.


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## Learning Reminders



## Practice Sheet Mild <br> Solving multiplications

1. Complete the array to represent, then solve: $4 \times 3$
2. Draw jumps on a line to show how to solve: $8 \times 2$


Choose a strategy to to solve the following:
3. $4 \times 10$
7. $6 \times 4$
4. $6 \times 3$
8. $9 \times 3$
5. $8 \times 5$
9. $2 \times 12$
6. $4 \times 7$
10. $7 \times 3$


## Practice Sheet Hot <br> Multiplication balances

Complete the multiplications to make the scales balance.


Challenge
Write some of your own balancing multiplications. $\square \times \square=\square \times \square$
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## Practice Sheets Answers

Solving multiplications (mild)

1. $4 \times 3=12$ (have children drawn a $3 \times 4$ or a $4 \times 3$ array?)
2. $8 \times 2=16$
3. $4 \times 10=40$
4. $6 \times 3=18$
5. $8 \times 5=40$
6. $4 \times 7=28$
7. $6 \times 4=24$
8. $9 \times 3=27$
9. $2 \times 12=24$
10. $7 \times 3=21$

Multiplication balances (hot)


## Challenge

Write some of your own balancing multiplications. $\square \times$ $\square$ = $\square$ $\times \square$ E.g. $5 \times 10=10 \times 5,4 \times 4=8 \times 2,8 \times 5=4 \times 10$

## Work in pairs

Things you will need:

- counters
- pencil and paper


## What to do:

- On Monday, Mrs Multiple, the baker, made 12 cup cakes.


Rather than straight lines like this, she likes to arrange them in rectangles or arrays. How could she do it? Use counters to help you explore the arrays you can make with 12 cakes.
Draw or write down what you discover.

- On Tuesday, Mrs Multiple made 15 cakes, how could she arrange them in an array? It's a larger number of cakes, so do you think there will be more or fewer ways to arrange them than with Monday's 12 cakes?
- On Wednesday, Mrs Multiple baked 19 cakes!
Can she place these in one or more arrays?


S-t-r-e-t-c-h:
Find which number of cakes from 10 to 20 can be arranged in the most ways. Which do you think it might be?

## Learning outcomes:

- I understand that an array is a rectangular arrangement of objects with the same number in each of its rows.
- I can begin to use and remember multiplication facts.



