

## Maths

## Multiplication and Division

## The Nines


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## Aim

- I can multiply and divide by nine.


## Success Criteria

- I can count in nines.
- I can recognise multiples of 9 up to $12 \times 9$.
- I can use my knowledge of the 9 times table to find the related division facts.
- I can investigate and describe patterns in the 9 times table.
- I can use patterns to predict the next multiple of 9.


## Four Facts

Use the three numbers in the bubbles to make four facts, like this...


## Let's Count in Nines

$$
1 \times 9=9
$$



## Let's Count in Nines

$$
2 \times 9=18
$$

1 tens 8 ones

$$
\rho(10)^{2} 9
$$

## Let's Count in Nines

$$
3 \times 9=27
$$

2 tens
7 ones


## Let's Count in Nines

$$
4 \times 9=36
$$

3 tens
6 ones


## Let's Count in Nines

$$
5 \times 9=45
$$

4 tens
5 ones


## Let's Count in Nines

$$
6 \times 9=54
$$

## 5 tens

4 ones


## Let's Count in Nines

$$
7 \times 9=63
$$

6 tens
3 ones


## Let's Count in Nines

$$
8 \times 9=72
$$

7 tens
2 ones


## Let's Count in Nines

$$
9 \times 9=81
$$

## 8 tens

1 ones


## Let's Count in Nines

## $10 \times 9=90$

9 tens
0 ones


## Patterns in the Nines

Write out your nine times table from $0 \times 9$ to $12 \times 9$.
Can you see any patterns in the ones digits or tens digits?
Add the ten and ones digits together for each multiple of nine. What do you notice?

## Challenge

What happens if you keep counting up to $20 \times 9$ ?
Do the patterns continue?
Can you use the patterns to predict the next multiple of nine?

## The Nines Activities



## Diving into Mastery

Dive in by completing your own activity!


## Peer Assessment

What did you like best about the way this group presented their ideas?

How could they make their work even better?


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