



RECALL

Write your 15 times table up to 15 x 15.

What is the 3<sup>rd</sup> number in the sequence?

What is the 12<sup>th</sup> number in the sequence?

What would the 20<sup>th</sup> number in the sequence?

What would the 100<sup>th</sup> number in the sequence?

How could I work out any number in the sequence?





#### LEARNING HABITS?



## GUIDED PRACTICE

- Create a table showing the number of frogs(f) and the number of legs(l).
- 2) Can it work out the number of legs (1) for any number of frogs?

I frog 4 legs; 2 frogs 8 legs; 3 frogs 12 legs; ... This nursery rhyme can go on forever. What if we sang 100 verses or more?



What are the rules for the number of eyes (e) or mouths (m) a frog has?

Nursery Rhymes

# GUIDED PRACTICE



![](_page_6_Figure_0.jpeg)

![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

# INTELLIGENT PRACTICE

<u> III</u>

- 1) Reena makes fairy cakes. Each cake has 3 stars on top.
- a) Copy and complete the table and the sentence:

Number of cakes (c)	Number of stars (	s)
1		
2		
3		
4		
5		
10		
100		
1500		
С		

![](_page_9_Figure_4.jpeg)

ind the number of grapes.		
to find the number of grapes.		
omplete the sentence: c cakes, you need: c x grapes. Can you create a function hine? c + g		

4) Copy and complete								
	Number of ants	1	2	5			16	
	Number of legs		12		18	24		
Create a function machine.								
5) Join the rules to the correct diagrams								
		0	0	000		0		
n x 2		C	)	0	(	0		
n x 5		C	J	6		5)		
n x 3			J	6		ō)		
n × 4		$\Delta \Delta \Delta$						
		000	0	000	0 0	0000		

6) Whitney makes a pattern of triangles (t) using matchsticks (m).

![](_page_12_Figure_2.jpeg)

Complete the table showing the number of triangles and the number of matchsticks.

Number of triangles (t)	Rule	Number of matches (m)

7) It takes Mr Hall 6 minutes 30 seconds to run a mile.

Create a table to work out how long it takes Mr Hall to run half a marathon (13 miles)?

![](_page_13_Figure_3.jpeg)

Rule	

#### SELF-ASSESSMENT

- Some will even explain how they can re-arrange equations to help them find the answer they want
- Some will begin using letters to represent unknowns
- Most will explain a sequence in words
- All will continue sequences using a table

![](_page_14_Figure_5.jpeg)