

## The Mayan Number System (5th and 6th Class)

**Resources:** Mayan number chart on activity template

**Strands:** Place value

**Activity:** This activity explores the Mayan number system which used a combination of base 5 and base 20. We use a base 10 system. Show pupils the Mayan number chart on the activity template and explore how the numbers are represented. Use the questions below to explore in greater depth.

**Questions:** How would you represent the number 51?

How would you represent the number 76?

What are the possible ways of representing 100?

## **Challenge Questions:**

- How could you write the sum 21 + 14 using the Mayan number system? What would the answer look like in the Mayan system?
- Select two numbers and subtract the smaller number from the larger number using the Mayan number system.

## Variations:

- 1. Think about place value in another base system—what would the number ten be if using a base four system? (4, 4, 2 = 22)
- 2. How about the number ten in a base eight system? (8, 2 = 12)



## The Mayan Number System

A dot represents the number 1

A stick represents the number 5



1 •	2 • •	3 •••	4 ••••	5
6	7 ••	8	9 ••••	10
11	12	13	14	15
16	17	18	19	20
21 •	22 • •	23 • • •	24•••	25
26	27 • •	28 •••	29 ••••	30
31	32	33 •••	34 •••	35
36	37	38	39	40
41	42 ••	43 • • •	44 ••••	45
46	47 • •	48 •••	49 •••	50