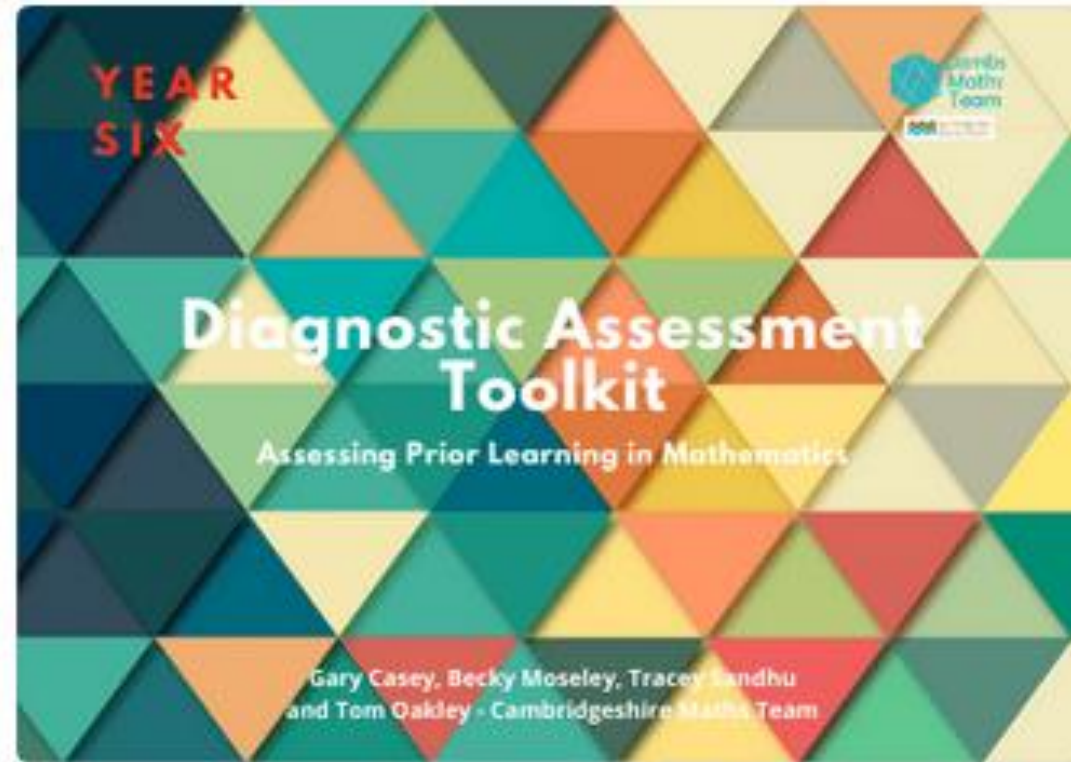
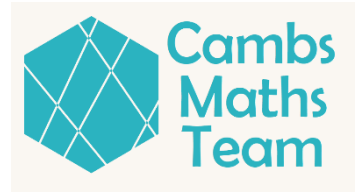


Diagnostic Assessment Toolkit:

Year 6



This is a companion guide for the **Diagnostic Assessment Toolkit: Year 6** created by the Cambs Maths Team. The featured activities can be carried out to assess children's understanding of their prior learning, from Year 5.

Credit: Some images of manipulative resources were created with mathsbot.com

Place Value and Number

Diagnostic assessment activities you could try:

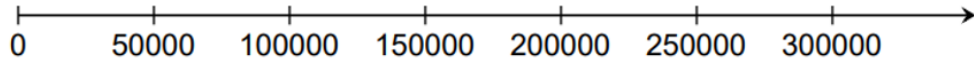
- **Show me** - Ask children to position numbers on a number line and round them to the nearest 100 or 1,000. For example, you could try a) 2,055 b) 72,480 and c) 271,210.
- **Compare** - Look at a selection of positive and negative numbers, then ask children to order them from smallest to largest and talk about the difference between them.
- **What do you notice?** - Ask the children what they notice when they try counting on or back in 10s, 100s and 1000s. For example, counting on in 10s from 950; in 100s from 4,510; in 1,000s from 65,005; back in 100,000s from 903,000. Which digits stay the same and which ones change?
- **Multiple Choice** - What could the missing numbers be in this sequence: 2, __, 8, __? a) 5 and 11; b) 4 and 16; c) 4 and 6; d) something else.



Place Value and Number

Show me

Show me where you would position these numbers on a number line: a) 2055 b) 72,480 and c) 271,210.



Can you round each number to the nearest 100 and to the nearest 1000?

What do you notice?

Continue each sequence with the next three numbers.

- A) 950, 960, 970, 980, ... , ... , ...
- B) 4510 , 4610 , 4710 , 4810 , ... , ... , ...
- C) 65,005 , 66,005 , 67,005 , 68,005 , ... , ... , ...
- D) 903,000 , 803,000 , 703,000 , 603,000 , ... , ... , ...

What do you notice about the digits as the numbers increase/decrease?

Compare

Order these positive and negative numbers from smallest to largest.



Find the difference between two numbers in this list.

Multiple Choice

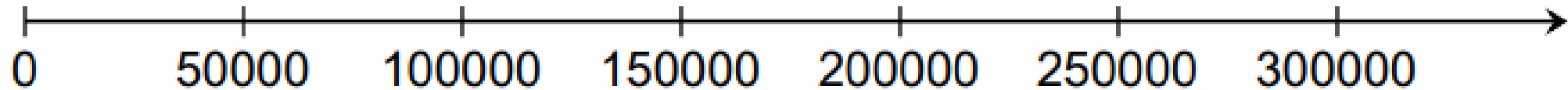
What could the missing numbers be in this sequence:

20 , ___ , 80 , ___

- a) 50 and 110 b) 40 and 160 c) 40 and 60
or, d) something else?

Show me

Show me where you would position these numbers on a number line: a) 2055 b) 72,480 and c) 271,210.



Can you round each number to the nearest 100 and to the nearest 1000?

Compare

Order these positive and negative numbers from smallest to largest.



Find the difference between two numbers in this list.

What do you notice?

Continue each sequence with the next three numbers.

A) 950, 960, 970, 980, ... , ... , ...

B) 4510 , 4610 , 4710 , 4810 , ... , ... , ...

C) 65,005 , 66,005 , 67,005 , 68,005 , ... , ... , ...

D) 903,000 , 803,000 , 703,000 , 603,000 , ... , ... , ...

What do you notice about the digits as the numbers increase/decrease?

Multiple Choice

What could the missing numbers be in this sequence:

20 , ___ , 80 , ___

- a) 50 and 110 b) 40 and 160 c) 40 and 60
or, d) something else?**