

# NUMBER AND PLACE VALUE

## Objective

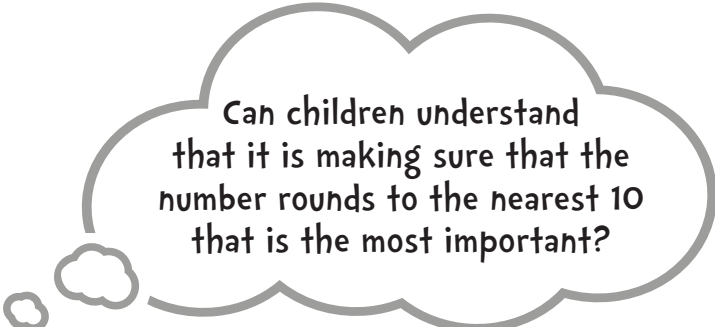
- Round any number to the nearest 10, 100 or 1000

## Before they tackle this problem, ensure children have...

- Mastered the rules of rounding to the nearest 10, 100 and 1000
- Mastered their understanding of the place value of numbers to 10000

## SETTING THE SCENE


What is 2997 rounded to the nearest 10? 100? 1000? What do you notice about the answers? Can you find other examples where this is the case? What do you have to think about in order to make this work?



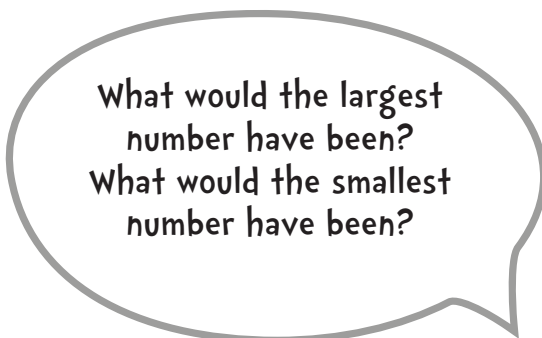
Can children understand that it is making sure that the number rounds to the nearest 10 that is the most important?

## EXPLORE

If the answer to a rounding question is 1000, what could the question have been?



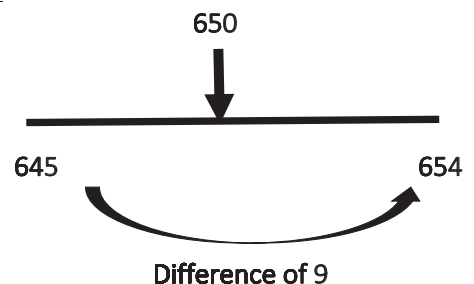
What could we have been rounding to? 10, 100 or 1000?



What would the largest number have been? What would the smallest number have been?

## TAKING IT FURTHER

Show examples on a number line where you have the answer in the middle of the number line. If I was rounding to the nearest 10 what would the smallest and largest number be that could round to this number? What is the difference between these numbers? Will this be the case each time I round to the nearest 10?

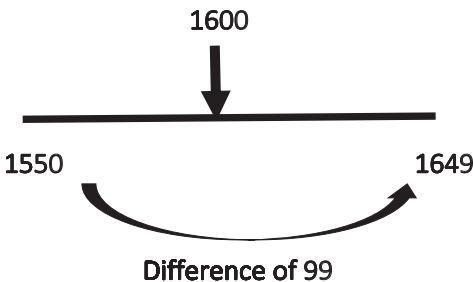


What do you notice about the difference and the number we are rounding to?

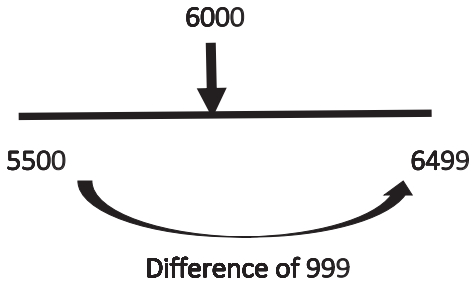
What do you think the difference will be when we are rounding to the nearest 100? 1000?

Can children explore the range of answers when rounding to the nearest 10, 100 and 1000?

Rounding to the nearest 100



Rounding to the nearest 1000



Can the children generalise about how many numbers will round to a given number based on whether we are rounding to the nearest 10, 100 or 1000?

**OUTCOME**

Children should be clear on the rules for rounding. They should be able to use this knowledge to identify the smallest and largest number that will round to a given number if they are rounding to the nearest 10, 100 and 1000. They should be able to generalise about how many numbers will round to a given number based on whether they are rounding to the nearest 10, 100 or 1000.