



Doubling and halving numbers

CAPS Statement

Numbers, operations and relationships

Addition and subtraction of whole numbers with at least 5-digit numbers by using the technique of doubling and halving.

Note

When we double a number, we take a number and add the number to itself (it also means to multiply the number with 2). Halving a number works in a similar ways but here you take a number and subtract it from a bigger number. If the answer is the same as the subtracted number, it means that the subtracted number is half of the bigger number. This also means that you take a number and divide it by 2.

For example: $20000 + 20000 = 40000$ (doubling)

$40000 - 20000 = 20000$ (halving)

or

$12550 + 12550 = 25100$

$25100 - 12550 = 12550$

Activity 1

Complete the following calculations:

(a) $72121 + 72121 =$

(b) $23424 + 23424 =$

(c) $10101 + 10101 =$

(d) $20113 + 20113 =$

(e) $98761 + 98761 =$



f $76890 - 38445 =$

g $43060 - 21530 =$

h $12760 - 6380 =$

i $80024 - 40012 =$

j $66860 - 33430 =$

Activity 2

Fill in the missing numbers:

$$20200 + \underline{\hspace{2cm}} = 40400$$

$$\underline{\hspace{2cm}} + 25150 = 50300$$

$$96500 - 48250 = \underline{\hspace{2cm}}$$

$$58000 - \underline{\hspace{2cm}} = 29000$$

$$19010 + \underline{\hspace{2cm}} = 38020$$

$$44300 - 22150 = \underline{\hspace{2cm}}$$

$$99998 - \underline{\hspace{2cm}} = 49999$$

$$10406 + 10406 = \underline{\hspace{2cm}}$$

Teacher Tip

Let learners use these methods in class. This is a way to strengthen the learners' mental calculations.

