### 3.1 Rounding Off Numbers To Decimal Places

## A. Idea of Rounding

In our daily life, we often come across figures which are approximations to the exact


In primary schools, we have learnt to round off a value to the nearest 10,100 or 1000.

| Round off to <br> the desired <br> place value | Digit to consider | Digit is 5 <br> or more | Digit is 4 <br> or less |
| :--- | :--- | :--- | :--- |
| the nearest 10 | digit in the ones place | round up | round down |
| the nearest 100 | digit in the tens place | round up | round down |
| the nearest 1000 | digit in the hundreds place | round up | round down |

Note: We have to consider the correct digit when rounding off to different place values.

The exact figure of a country's population varies from time to time. In Singapore, the population depends on the birth and death of citizens and permanent residents as well as the influx of foreign workers.

Rounding off to whole numbers:
${ }^{\text {STEP }}$ I Mark a cut-off point after the desired place value.
${ }^{\text {STEP }}$ If the first digit after the cut-off point is 4 or less, you round down the number. If this digit is 5 or more, you round up it.

STEP Write the number that is rounded off and state the degree of accuracy.

