

# ROUNDING A NUMBER

To round a number to a required number of decimal places:

- locate the digit in the required decimal place
- round down if the next digit (**critical digit** or **decider**) is 4 or less
- round up if the critical digit/decider is 5 or more.

Example: round to two decimal places

1.543 rounds to 1.54

32.9283 rounds to 32.93

# ROUNDING A NUMBER

Round each of the following to the specified number of decimal places.

- a** Round 18.34728 to 3 decimal places.
- b** Round 0.43917 to 2 decimal places.
- c** Round 7.59967 to 3 decimal places.

## SOLUTION

- a** 18.347
- b** 0.44
- c** 7.600

## EXPLANATION

The critical digit is 2, therefore round down.

The critical digit is 9, therefore round up.

The critical digit is 6, therefore round up.

Rounding up has resulted in digits being carried over.

Remember to show the stated number of decimal places; hence, the zeros must be displayed.