

Part 1

## 1. Define significant figures

Number of digits reported for the values of a measured or calculated quantity

## 2. How is a number's number of significant figures different from its number of decimal places?

The significant figures can include numbers to the left of the decimal point. For example, 405.5 has one decimal place, but 4 significant figures.

## 3. Rules for zeros

Zeros are significant when

1. They are between other significant figures
2. Zeros to right of number, but after decimal point

Zeros are not significant when

1. Preceding decimal point with no numbers to the left
2. Precede first non-zero digit and

## 4. Rules for multiplication and division

Result should have no more significant figures than the factor with the fewest significant digits

## 5. Rules for addition and subtraction

Give same number of decimal places as there are in the factor with the least number of decimal places

## 6. Rules for exact numbers

Do not factor into significant figures calculations