

# **Solving problems with rounding**

## **Downloadable Resource**

Miss Oreyomi



## Questions

- 1) Find the least and greatest total length of 8 hot dogs, each measuring 9cm to the nearest centimetre.
- 2) A playground has width of 64 metres, measured to the nearest metre. The length of the pitch is 113 metres correct to the nearest metre. Work out the upper bound for the perimeter of the pitch.



## Questions

3) Mary measured the length and width of a rectangle.

She measured the length to be 19cm correct to the nearest centimetre.

She measured the width to be 10cm correct to the nearest centimetres.

Calculate the lower bound for the area of this rectangle



# Questions

4) The heights of 6 boxes are given below.

Each height is given to one decimal place.

2.9cm    5.6 cm    7.8cm    9.2cm    6.5cm    9.4cm

a) Work out the greatest possible mean

b) Work out the greatest possible range



# Questions

5) The width of a rectangle is 60cm, correct to 2 significant figures.

The length of a rectangle is 125cm, correct to 3 significant figures.

a) Write down the lower bound for the length.

b) Calculate the lower bound for the area of the rectangle.

