

DAISY CENTRE AND SCHOOL

HOLLIDAY ASSIGNMENT STD 8

SCALE DRAWING

Scale can be written in two ways:

1. Ratio form: 1:100000
2. Statement form: 1cm rep 4000m

N/B: When scale is written in ratio form it is in centimetres

Key points

1. 100cm - 1m
2. 100000cm - 1km
3. 10000meter square - 1ha
4. 100meter square - 1are
5. 100are - 1ha

Example 1

A Line measuring 7cm is drawn on a map whose scale is 1:300000. Find the actual length in kilometres?

If 1cm rep 300000cm

7cm?

300000×7

2100000cm

Change it to kilometres

100000cm - 1km

2100000?

$2100000 \div 100000$

21km ans

Example 2

The diagram below shows Frank compound. Scale used is 1:10000. find area in hectares.



1st step

Multiply each side by the scale

If 1cm rep 10000cm

5cm?

5×10000 equals 50000cm

3×10000 equals 30000cm

2nd step

Change into meters

100cm-1m

50000cm

$50000\text{cm} \div 100\text{cm}$

500m

$30000\text{cm} \div 100\text{cm}$

300m

3rd step

Find area of the rectangle

$L \times W$

500×300 EQUALS 150000METER SQUARE

4TH STEP

CHANGE INTO HECTARES

10000 meter square -1ha

150000meter square?

$150000 \div 10000$

15hectares ans

Do questions in mirror and spotlight on scale for practise

TR FRANK