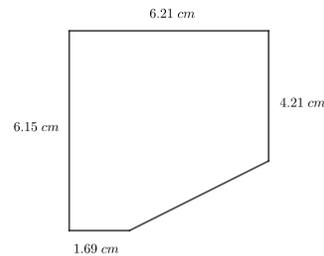**1.**   [2 *points*]

Round 257832.16583 to (a) 2 decimal places (b) 3 significant figures.

2.   [3 *points*]

Estimate the area of the following figure by rounding all lengths to 1 significant figure (diagram not to scale).

6.21 *cm*

4.21 *cm*

6.15 *cm*

1.69 *cm*

3.   [4 *points*]

The population of a certain town grows by 2% each year. The current population is 13 200.

(a) Write down the formula for $P(t)$ - the population P in t years.

(b) Find the population of this town:

     (i) in 4 years,

     (ii) last years.

(c) When will the population first exceed 15 000?

4.   [3 *points*]

Tomasz invests 45 000 PLN into savings account that pays 6% annual interest rate which is compounded every 6 months.

(a) Find the value of the investment after 5 years.

(b) How long will it take for the value of the investment to reach 75 000 PLN? Give your answer to the nearest half-year.