1 Nav has worked out $\frac{68.3 \times 42.8}{0.021}$ on his calculator.

His answer is 139 201.9048

Without using a calculator and using suitable approximations, check that his answer is sensible. Show your working clearly.

$$\frac{70 \times 40}{0.02} = \frac{1800}{0.02} = \frac{1800}{\frac{1}{100}}$$

$$= \frac{280000}{2}$$

$$= 140 000 . Yes his answer is sensible.$$

(Total for Question 1 is 2 marks)

2 (a) Complete the following estimates by writing a suitable metric unit on each of the dotted lines.

(i)	The distance from Paris to Berlin is about 1000	kilometres Ck	cm)	\bigcirc
(1)	The distance from Lans to Defini is about 1000			

(ii) A bucket holds about 5 litres (1) of water.

(iii) The area of the screen of a mobile phone is about 90 centimeter square (cm²) (1)

(b) Write down an estimate for the height of a bedroom door in a house. Use a suitable metric unit.

metres (



(2)

(Total for Question 2 is 5 marks)

3 By writing each value correct to one significant figure, work out an estimate for the value of

$$\frac{8.23\times181}{0.482}$$

Show your working clearly.

$$\frac{8 \times 200^{1}}{0.5} = \frac{1600}{0.5}$$

$$= 3200 \text{ (i)}$$

3200