

- 1
- $a = 4.72$ to 3 significant figures.
 $b = 158$ to 3 significant figures.

Work out the upper bound of $\frac{a}{b}$

You **must** show your working.

[3 marks]

Answer

2 To be rented, a bedroom must have a floor area of at least 6.51 m^2

A bedroom has a rectangular floor.

The floor measures 2.4 m by 2.9 m , each correct to 2 significant figures.

Show that the bedroom can be rented.

[3 marks]

3 The mass of a baby is 3.6 kilograms to 1 decimal place.

What is the error interval for the mass in kilograms?

Tick **one** box.

[1 mark]

☐

$$3.5 \leq \text{mass} \leq 3.6$$

☐

$$3.55 \leq \text{mass} \leq 3.65$$

☐

$$3.5 \leq \text{mass} < 3.6$$

☐

$$3.55 \leq \text{mass} < 3.65$$

4 $a = 65$ to the nearest integer
 $b = 30$ to 1 significant figure

Work out the **upper bound** for $2a^2 - b^2$

You **must** show your working.

[3 marks]

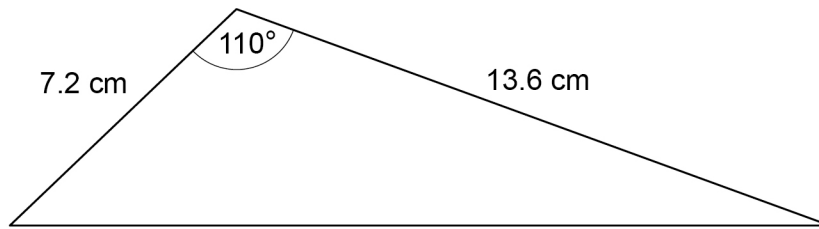
Answer _____

5

Two sides of a triangle are measured to 1 decimal place.

The angle between the sides is measured to the nearest degree.

Not drawn
accurately



Work out the upper bound for the area of the triangle.

You **must** show your working.

[4 marks]

Answer _____ cm^2