a) Jamie buys fence panels that fit tightly together.


Each panel has a length of 1.8 m , correct to 1 decimal place.
Jamie measures the length of a garden as 42 m , correct to the nearest metre.

Work out the minimum number of panels Jamie should buy in order to be certain that there are enough panels for the length of the garden. Show how you decide?

How wide is the
fence panel, $w$ ?
How long is the garden, $l$ ?

To be sure of having enough, what assumptions can Jamie make?

Taking these assumptions into account, how many fence panels does Jamie need to buy?

$$
1.75 \mathrm{~m} \leq w<1.85 \mathrm{~m}
$$

$$
41.5 \mathrm{~m} \leq w<42.5 \mathrm{~m}
$$

The garden could be 42.5 m long - this would require more fence panels.

The width of each panel could be 1.75 m wide this would require more fence panels.

$$
42.5 \div 1.75=24 . \overline{285714}
$$

Jamie needs to buy a minimum of 25 fence panels to be sure that they will have enough fencing for the length of the garden.
b) Jamie buys fence panels that fit tightly together.


Each panel has a length of 1.6 m , correct to 1 decimal place.
Jamie measures the length of a garden as 48 m , correct to the nearest metre.

Work out the minimum number of panels Jamie should buy in order to be certain that there are enough panels for the length of the garden. Show how you decide?

| How wide is the <br> fence panel, $w$ ? | $1.55 \mathrm{~m} \leq w<1.65 \mathrm{~m}$ |
| :--- | :--- |
| How long is the <br> garden, $l$ ? | $47.5 \mathrm{~m} \leq w<48.5 \mathrm{~m}$ |

To be sure of having enough, what assumptions can Jamie make?

## Taking these

 assumptions into account, how many fence panels does Jamie need toThe garden could be 48.5 m long - this would require more fence panels.

The width of each panel could be 1.55 m wide this would require more fence panels.
buy?
c) Jamie buys fence panels that fit tightly together.

Each panel has a length of 2.4 m , correct to 1 decimal place.
Jamie measures the length of a garden as 30 m , correct to the nearest metre.

Work out the minimum number of panels Jamie should buy in order to be certain that there are enough panels for the length of the garden.
Show how you decide?
How wide is the
fence panel, $w$ ?
How long is the garden, $l$ ?

To be sure of having enough, what assumptions can Jamie make?

## Taking these

 assumptions into account, how many fence panels does Jamie need to buy?d) Jamie buys fence panels that fit tightly together.

Each panel has a length of 1.5 m ,
correct to 1 decimal place.
Jamie measures the length of a garden as 20 m , correct to the nearest metre.

Work out the minimum number of panels Jamie should buy in order to be certain that there are enough panels for the length of the garden. Show how you decide?

