

Converting Units of Length

Units of Length



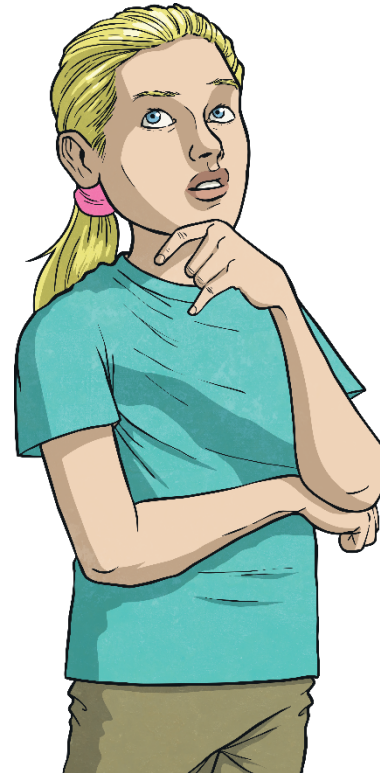
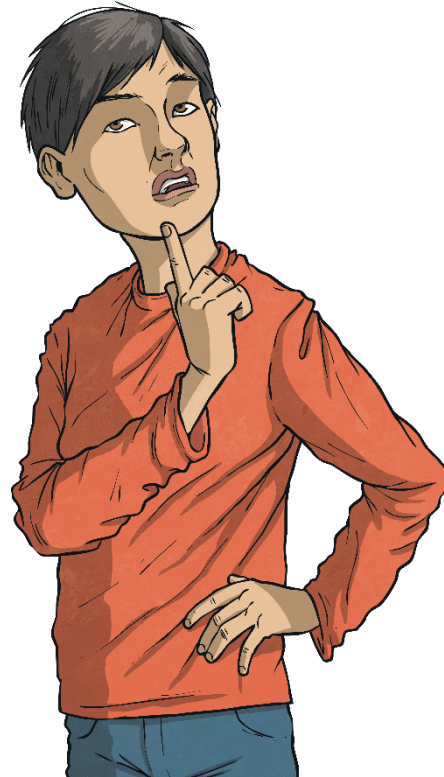
Put these units of measurement in order from smallest to largest.

metre

centimetre

kilometre

millimetre



Centimetres to Millimetres



What calculation do we need to do to convert from centimetres to millimetres?

m

We need to multiply the number of centimetres by 10. There are ten times as many millimetres in the same length than centimetres.

- 4cm? **40mm**

Centimetres to Millimetres



Remember, to convert from centimetres to millimetres, we need to multiply the number of centimetres by 10.

How many millimetres are there in

A wooden clipboard with a silver clip at the top. On the clipboard is a white sheet of paper with four conversion examples. To the right of the paper is a purple and white Pentangle pen.

5cm? 50mm

6cm? 60mm

7cm? 70mm

8cm? 80mm

Converting Millimetres to Centimetres



To convert millimetres to centimetres, we use the inverse operation and divide the number of millimetres by 10:

$$70\text{mm} \div 10 = 7\text{cm}$$

If this creates a decimal number, the tenths represent millimetres:

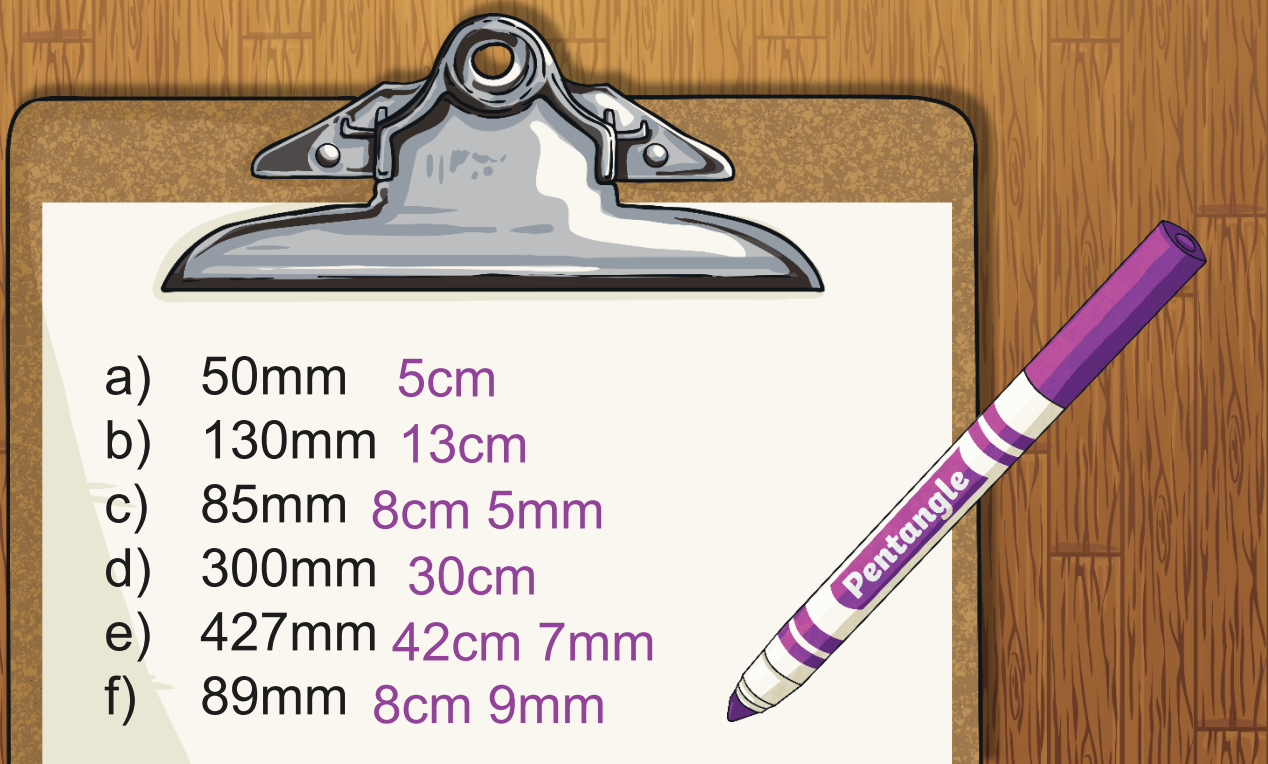
$$125\text{mm} \div 10 = 12.5 = 12\text{cm } 5\text{mm}$$



Converting Millimetres to Centimetres



Convert these millimetre measurements into centimetres.

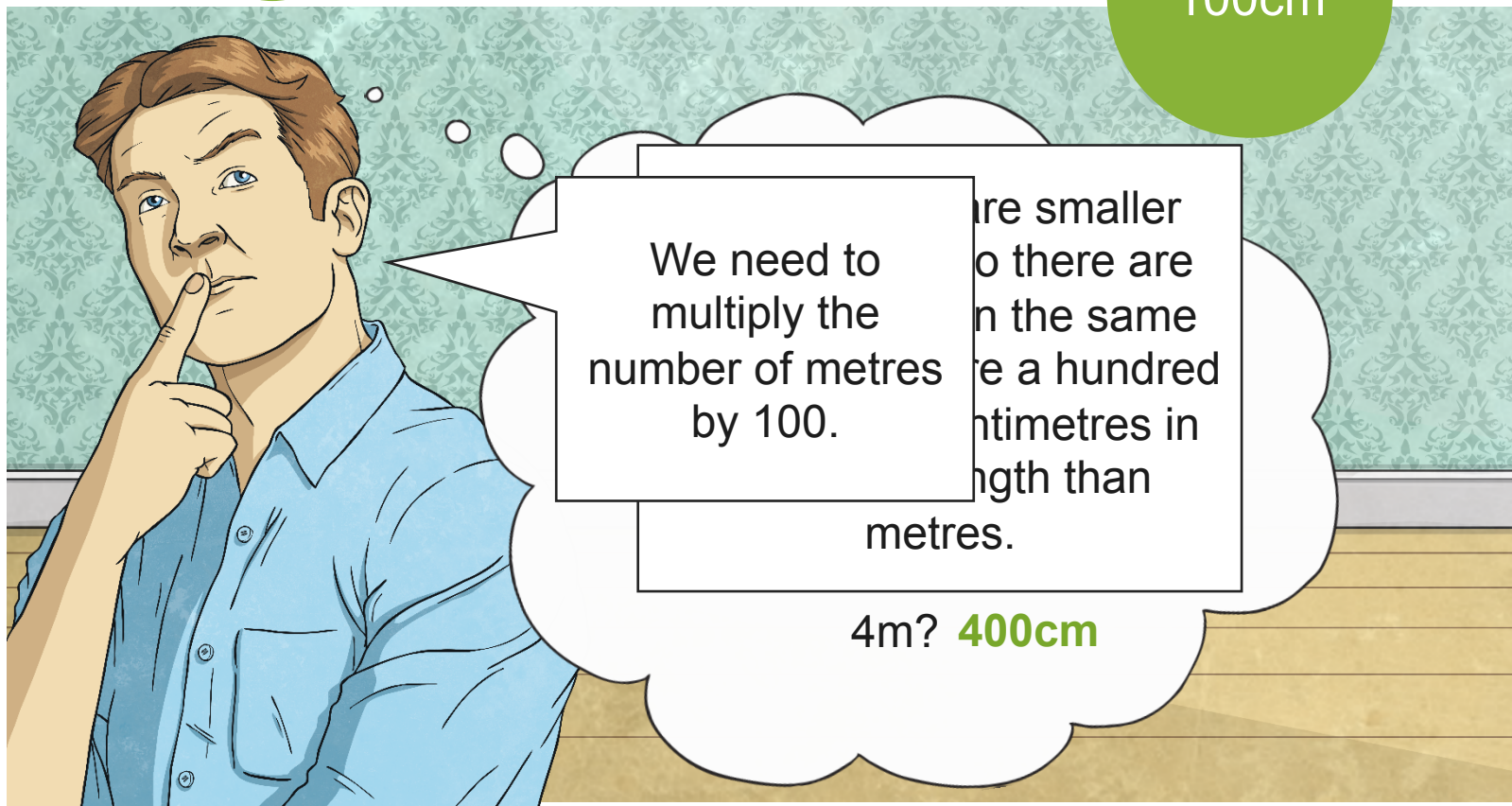
- 
- a) 50mm 5cm
b) 130mm 13cm
c) 85mm 8cm 5mm
d) 300mm 30cm
e) 427mm 42cm 7mm
f) 89mm 8cm 9mm

Metres to Centimetres



What calculation do we need to do to convert from metres to centimetres?

100cm



Metres to Centimetres



Remember, to convert from metres to centimetres, we need to multiply the number of metres by 100.

How many centimetres are there in

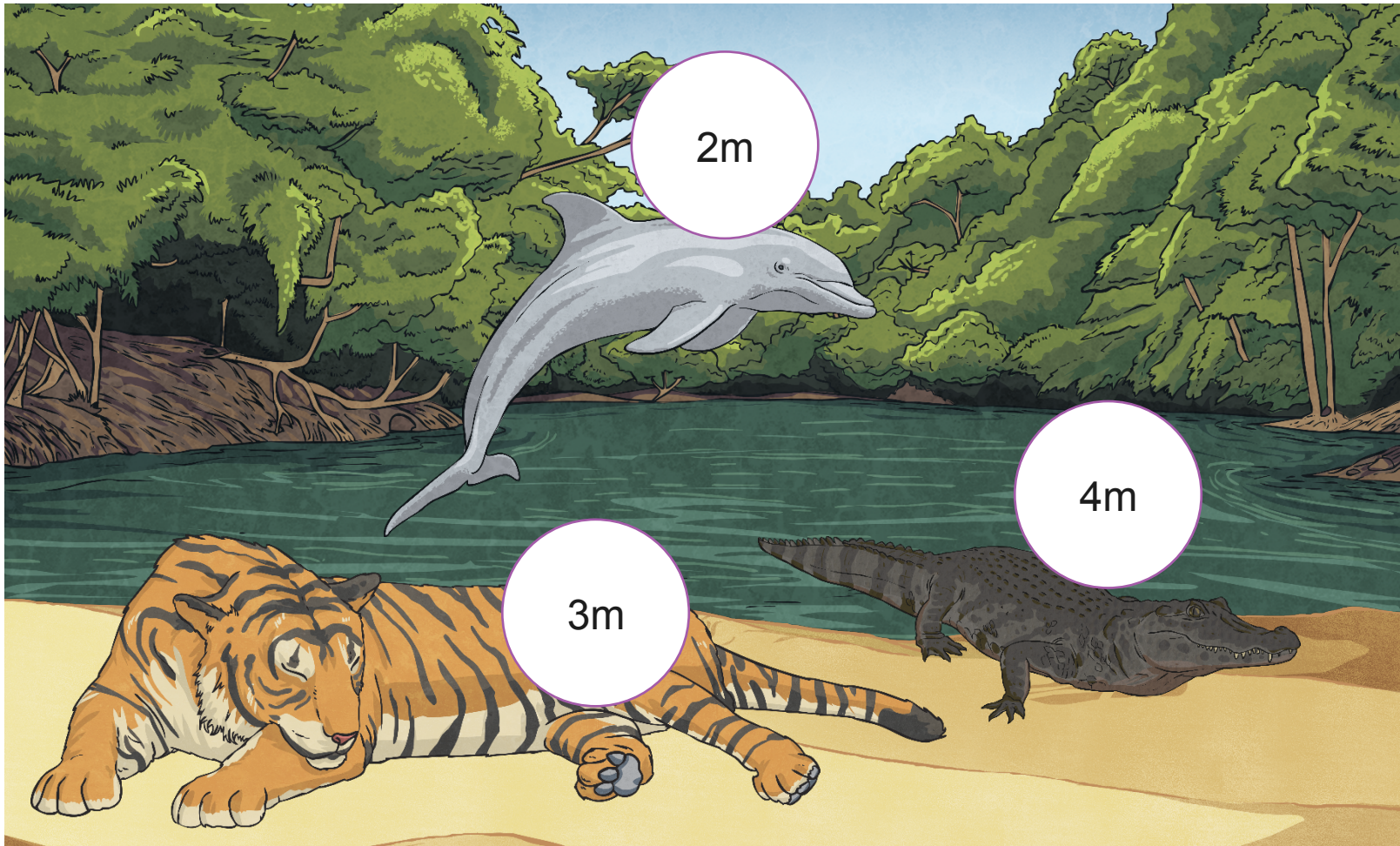
5m? 500cm

6m? 600cm

7m? 700cm

8m? 800cm

What's the Length?



What's the Length?



?

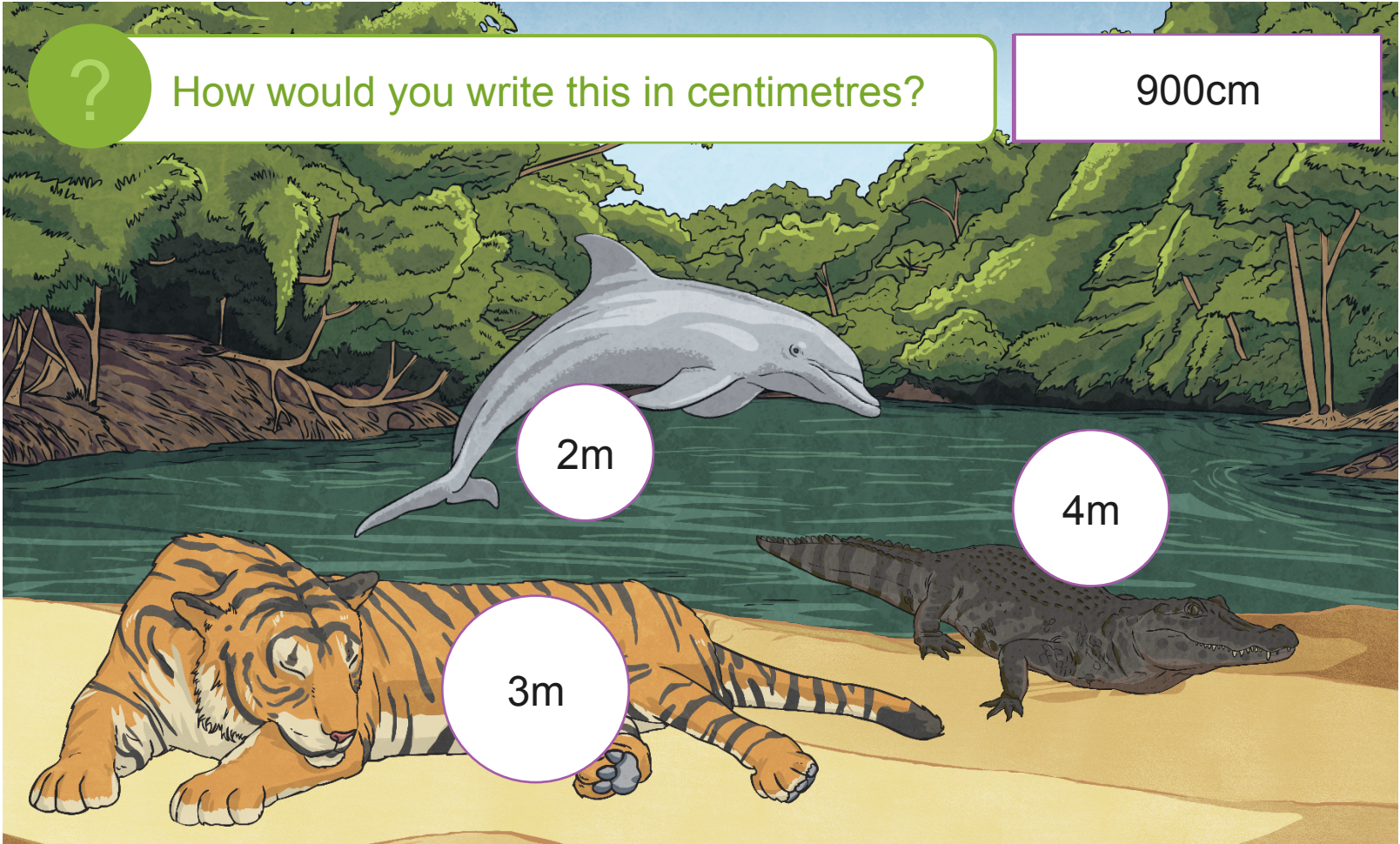
How would you write this in centimetres?

900cm

2m

4m

3m



Converting Centimetres to Metres



To convert centimetres to metres, we use the inverse operation and **divide** the number of centimetres by 100:

$$500\text{cm} \div 100 = 5\text{m}$$

If this creates a decimal number, the **hundredths** become centimetres:

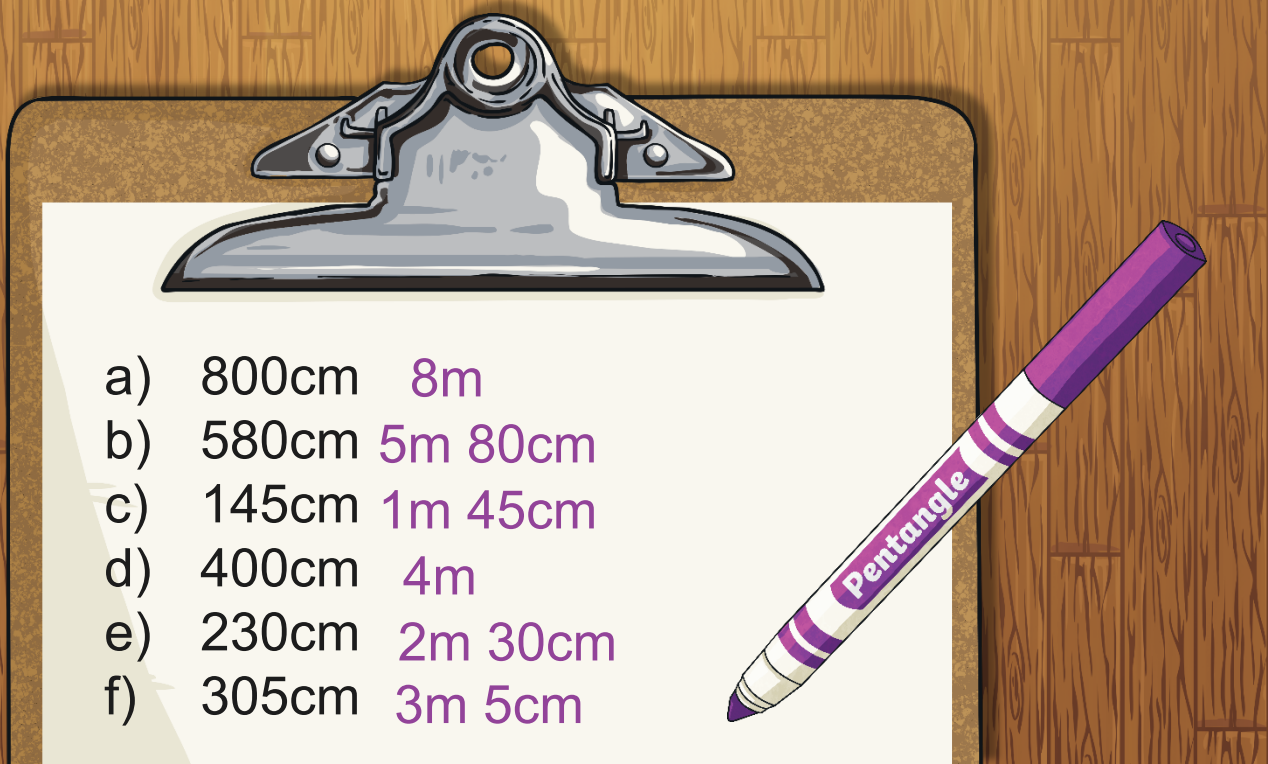
$$250\text{cm} \div 100 = 2.50 = 2\text{m } 50\text{cm}$$



Converting Centimetres to Metres



Convert these centimetre measurements into metres.

- 
- a) 800cm 8m
b) 580cm 5m 80cm
c) 145cm 1m 45cm
d) 400cm 4m
e) 230cm 2m 30cm
f) 305cm 3m 5cm