



Starter:

Learn:

8km ≈ 5 miles

1kg ≈ 2.2lb

1 litre ≈ 1.75 pints

Use the table to convert the following:

30 miles ≈ km

7kg ≈ lb

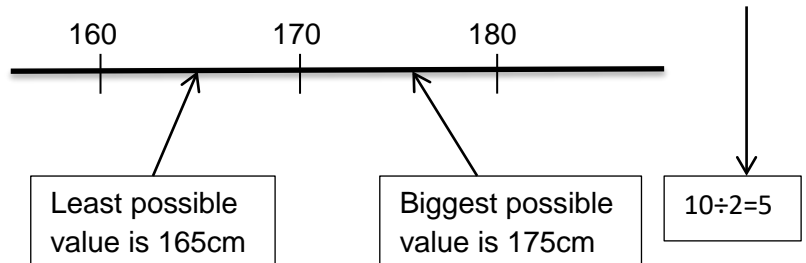
10 litre ≈ pint

35 pints ≈ litre

Top tips!

Halve units to calculate the upper and lower limit

e.g. the height of a person is 170cm rounded to the nearest 10cm



Skills:

1. Two boxes are stacked on top of each other.
The height of each box is 6cm, measured to the nearest cm.
Explain why these two boxes might not fit a space that is 12cm high.

2. The length of a stick is 46cm correct to the nearest cm. Write down the:
 - a) least possible length:
 - b) greatest possible length:

3. The weight of an animal is 165kg correct to the nearest 5kg. Write down the:
 - a) least possible length:
 - b) greatest possible length:

Cwestiwn Arholiad:



2015 January Unitised– Unit 1 Higher Q10

Thin aluminium strips were attached, end to end, around the square base of a statue.
The strips were bent around the corners of the base, where necessary.
The length of each side of the square base was 350 cm, measured correct to the nearest 10 cm.
Each aluminium strip was 20 cm long, measured correct to the nearest centimetre.
Find the smallest possible number of strips that could have been used. [6]

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Starter:

Learn:

8km \approx 5 miles1kg \approx 2.2lb1 litre \approx 1.75 pints

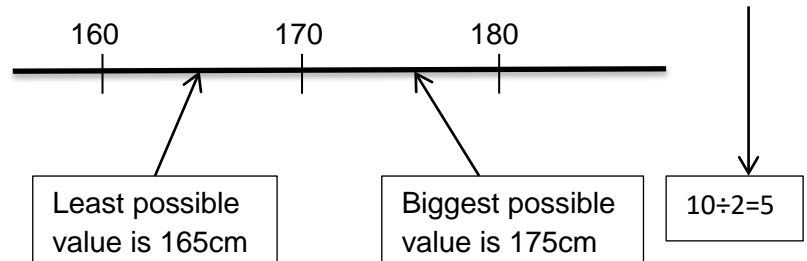
Use the table to convert the following:

30 miles \approx 48 km7kg \approx 15.4 lb10 litre \approx 17.5 pint35 pints \approx 20 litre

Top tips!

Halve units to calculate the upper and lower limit

e.g. the height of a person is 170cm rounded to the nearest 10cm



Skills:

- Two boxes are stacked on top of each other.

The height of each box is 6cm, measured to the nearest cm.

Explain why these two boxes might not fit a space that is 12cm high.

Biggest height of the box = 6.5cm

$$6.5\text{cm} \times 2 = 13\text{cm} > 12\text{cm}$$

- The length of a stick is 46cm correct to the nearest cm. Write down the:

c) least possible length: 45.4cm

d) greatest possible length: 46.5cm

- The weight of an animal is 165kg correct to the nearest 5kg. Write down the:

c) least possible length: 162.5kg

d) greatest possible length: 167.5kg

Cwestiwn Arholiad:



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Thin aluminium strips were attached, end to end, around the square base of a statue.

The strips were bent around the corners of the base, where necessary.

The length of each side of the square base was 350 cm, measured correct to the nearest 10 cm.

Each aluminium strip was 20 cm long, measured correct to the nearest centimetre.

Find the smallest possible number of strips that could have been used. [6]

Least possible length of square = 345cm

Biggest length of strip = 20.5cm

$$(345 \div 20.5) \times 4 = 67.3170\dots$$

Least number required = 68

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