

Metric and imperial units of length

Use the information below to solve these problems

Answer sheet

Convert from metric to imperial	Convert from imperial to metric
1cm $\approx$ 0.4 inch	1 inch (in) = 2.54cm
1m $\approx$ 40 inches	1 foot (ft) $\approx$ 30cm
1km $\approx$ 0.6 miles	1 yard (yd) $\approx$ 90cm
	1 mile $\approx$ 1.6km

1. A fisherman needs 1 yard of new rope to mend a broken net. If he has 5 nets to mend, how much should he buy in total, in metres?

$$5 \times 1\text{yd} = 5\text{yds} \quad 5 \times 0.9\text{m} \approx 4.5\text{m}$$

2. Zoe ran the marathon running race, which is 26 miles long. How far did she run in kilometres?

$$26 \times 1.6 \approx 41.6\text{km}$$

3. My washing line measures 3.5m. How long is it in inches?

$$3.5 \times 40 \approx 140\text{in}$$

4. I bought 3 balls of string. Each ball has 20 inches of string. How much string is there altogether, in centimetres?

$$3 \times 20\text{in} = 60\text{in} \quad 60 \times 2.54\text{cm} = 152.4\text{cm}$$

5. The swimming pool is 1.5m deep at the deep end. How deep is it in feet?

$$1.5\text{m} = 150\text{cm} \quad 150 \div 30 \approx 5\text{ft}$$