

Converting Metric and Imperial measurements - Length

$$1 \text{ inch} \approx 2.5 \text{ cm}$$

$$1 \text{ yard} = 3 \text{ feet} = 36 \text{ inches} \approx 90 \text{ cm}$$

$$1 \text{ foot} = 12 \text{ inches} \approx 30 \text{ cm}$$

$$5 \text{ miles} \approx 8 \text{ km}$$

1. Convert the following measurements into cm:

a. 2 inches \approx 5 cm

b. 5 inches \approx 12.5 cm

c. 7 inches \approx 17.5 cm

d. 12.5 inches \approx 31.25 cm

e. 4 feet \approx 120 cm

f. 2 feet and 1 inch \approx 62.5 cm

g. 6 yards \approx 540 cm

h. 21 yards \approx 1890 cm

i. 3 yards and 2 feet \approx 330 cm

2. Convert the following measurements into inches (give your answers to 1 d.p.):

a. 5 cm \approx 2 inches

b. 20 cm \approx 8 inches

c. 7 cm \approx 2.8 inches

d. 24 cm \approx 9.6 inches

e. 125 cm \approx 50 inches

f. 2 m \approx 80 inches

g. 5.1 m \approx 204 inches

h. 21.5 m \approx 8.6 inches

i. 0.6 m \approx 24 inches

3. For each pair of measurements, circle the longest distance:

a. 6 cm or 2 inches

b. 2 m or 7 feet

c. 5.2 m or 6 yards

d. 1 mile or 2 km

e. 4 feet or 110 cm

f. 15 km or 9 miles

4. The speed limit on a British motorway is 70 mph. Pierre's French car only shows km/h on the speedometer.

If his speedometer reads 120 km/h, is he speeding?

120 km/h \approx 75 mph, yes he is speeding.

5. John ran 100 m in 15 seconds. Marco ran 120 yards in 16 seconds.

Who had the highest average speed? John = 6.67 m/s, Marco = 7.5 yards/s

Marco has the highest average speed.

\approx 6.75 m/s