

Foundation GCSE: Metric and Imperial Units

Name: _____

Class: _____

Instructions: Answer all questions. Questions are ordered from easiest (1) to hardest (20). Working out should be shown where appropriate.

1. Convert 5 miles into kilometres using $5 \text{ miles} \approx 8 \text{ km}$.
2. Convert 40 km into miles using $8 \text{ km} \approx 5 \text{ miles}$.
3. Convert 5 kg into pounds using $1 \text{ kg} \approx 2.2 \text{ lbs}$.
4. Convert 11 lbs into kilograms using $2.2 \text{ lbs} \approx 1 \text{ kg}$.
5. Convert 4 gallons into litres using $1 \text{ gallon} \approx 4.5 \text{ litres}$.
6. Convert 18 litres into gallons using $4.5 \text{ litres} \approx 1 \text{ gallon}$.
7. Convert 12 inches into centimetres using $1 \text{ inch} \approx 2.5 \text{ cm}$.
8. Convert 35 cm into inches using $2.5 \text{ cm} \approx 1 \text{ inch}$.
9. A speed limit is 60 mph. Approximately what is this in km/h?
10. Convert 10 stone into pounds (1 stone = 14 lbs).
11. Convert 140 lbs into stone.
12. Convert 2 yards into feet (1 yard = 3 feet).
13. Convert 36 inches into yards (36 inches = 1 yard).
14. Convert 8 pints into litres using $1 \text{ pint} \approx 0.568 \text{ litres}$.
15. Convert 5.68 litres into pints.
16. A recipe calls for 500 g of flour. Approximately what is this in ounces (1 oz $\approx$ 28 g)?
17. Convert 16 oz into grams.
18. A person is 5 feet 8 inches tall. Convert this total height into inches.
19. Convert 68 inches into feet and inches.
20. A car travels 150 miles. Using $5 \text{ miles} \approx 8 \text{ km}$, find the distance in kilometres.

Answers & Worked Solutions

1. 8 km : Direct conversion ratio given.
2. 25 miles : $40 \times \frac{5}{8} = 25$.
3. 11 lbs : $5 \times 2.2 = 11$.
4. 5 kg : $11 \div 2.2 = 5$.
5. 18 litres : $4 \times 4.5 = 18$.
6. 4 gallons : $18 \div 4.5 = 4$.
7. 30 cm : $12 \times 2.5 = 30$.
8. 14 inches : $35 \div 2.5 = 14$.
9. 96 km/h : $60 \times \frac{8}{5} = 96$.
10. 140 lbs : $10 \times 14 = 140$.
11. 10 stone : $140 \div 14 = 10$.
12. 6 feet : $2 \times 3 = 6$.
13. 1 yard : $36 \div 36 = 1$.
14. 4.544 litres : $8 \times 0.568 = 4.544$.
15. 10 pints : $5.68 \div 0.568 = 10$.
16. 18 oz : $500 \div 28 \approx 17.86 \approx 18$.
17. 448 g : $16 \times 28 = 448$.
18. 68 inches : $(5 \times 12) + 8 = 68$.
19. 5 ft 8 in : $68 \div 12 = 5$ remainder 8.
20. 240 km : $150 \times \frac{8}{5} = 240$.