ALLUNITCONVERSIONS · PRINTABLE WORKSHEET

Imperial to Metric Conversion Worksheet

Inches, feet, yards, miles, pounds, ounces and US gallons to and from metric, with the exact factors

Level: Ages 11–14 · Grades 6–9 · Years 7–10

allunitconversions.com/conversion-worksheets
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Name _____ Class _____ Date _____ Score _____ / 20

Use a calculator and the exact factors in the box. In Part A multiply by the factor; in Part B divide by it. Round each answer to 2 decimal places (the nearest hundredth).

REFERENCE

1 in = 2.54 cm	**1 ft = 0.3048 m**	**1 yd = 0.9144 m**	**1 mi = 1.609344 km**
1 lb = 0.45359237 kg	**1 oz = 28.349523125 g**	**1 US gal = 3.785411784 L**	**1 US fl oz = 29.5735295625 mL**

All of these factors are exact by definition (1959 International Yard and Pound Agreement).

WORKED EXAMPLE

75 cm = ? in → 75 ÷ 2.54 = 29.5275… ≈ 29.53 → **29.53 in**

Part A: imperial to metric (multiply by the factor)

1. 36 in = _____ cm

2. 54 ft = _____ m

3. 161 yd = _____ m

4. 77 mi = _____ km

5. 69 lb = _____ kg

6. 3.3 oz = _____ g

7. 7 US gal = _____ L

8. 26 US fl oz = _____ mL

9. 2.49 in = _____ cm

10. 14.3 ft = _____ m

Part B: metric to imperial (divide by the factor)

11. 50 cm = _____ in

12. 41 m = _____ ft

13. 21 m = _____ yd

14. 177 km = _____ mi

15. 4.5 kg = _____ lb

16. 729 g = _____ oz

17. 5 L = _____ US gal

18. 434 mL = _____ US fl oz

19. 25.9 cm = _____ in

20. 2.1 km = _____ mi

Answers are rounded to 2 decimal places; answers that come out exact are shown without trailing zeros. Answer key on page 2. More worksheets and the matching charts: allunitconversions.com/conversion-worksheets

Answer key — Imperial to Metric Conversion Worksheet

For teachers · remove before handing out

#	Question	Answer	Working
PART A: IMPERIAL TO METRIC (MULTIPLY BY THE FACTOR)			
1	36 in → cm	**91.44 cm**	36 × 2.54 = 91.44
2	54 ft → m	**16.46 m**	54 × 0.3048 = 16.4592… ≈ 16.46
3	161 yd → m	**147.22 m**	161 × 0.9144 = 147.2184… ≈ 147.22
4	77 mi → km	**123.92 km**	77 × 1.609344 = 123.91948… ≈ 123.92
5	69 lb → kg	**31.30 kg**	69 × 0.45359237 = 31.29787… ≈ 31.30
6	3.3 oz → g	**93.55 g**	3.3 × 28.349523125 = 93.55342… ≈ 93.55
7	7 US gal → L	**26.50 L**	7 × 3.785411784 = 26.49788… ≈ 26.50
8	26 US fl oz → mL	**768.91 mL**	26 × 29.5735295625 = 768.91176… ≈ 768.91
9	2.49 in → cm	**6.32 cm**	2.49 × 2.54 = 6.3246… ≈ 6.32
10	14.3 ft → m	**4.36 m**	14.3 × 0.3048 = 4.35864… ≈ 4.36
PART B: METRIC TO IMPERIAL (DIVIDE BY THE FACTOR)			
11	50 cm → in	**19.69 in**	50 ÷ 2.54 = 19.68503… ≈ 19.69
12	41 m → ft	**134.51 ft**	41 ÷ 0.3048 = 134.51443… ≈ 134.51
13	21 m → yd	**22.97 yd**	21 ÷ 0.9144 = 22.96587… ≈ 22.97
14	177 km → mi	**109.98 mi**	177 ÷ 1.609344 = 109.9827… ≈ 109.98
15	4.5 kg → lb	**9.92 lb**	4.5 ÷ 0.45359237 = 9.9208… ≈ 9.92
16	729 g → oz	**25.71 oz**	729 ÷ 28.349523125 = 25.71471… ≈ 25.71
17	5 L → US gal	**1.32 US gal**	5 ÷ 3.785411784 = 1.32086… ≈ 1.32
18	434 mL → US fl oz	**14.68 US fl oz**	434 ÷ 29.5735295625 = 14.67528… ≈ 14.68
19	25.9 cm → in	**10.20 in**	25.9 ÷ 2.54 = 10.19685… ≈ 10.20
20	2.1 km → mi	**1.30 mi**	2.1 ÷ 1.609344 = 1.30487… ≈ 1.30

Teaching notes: common mistakes

- Multiplying when you should divide. Going from centimetres to inches the number must get smaller, because an inch is bigger than a centimetre.
- Rounding the factor or the working too early. Keep every digit on the calculator and round only the final answer.
- Using the UK gallon (4.54609 L) when the question means the US gallon (3.785411784 L).

Answers are rounded to 2 decimal places; answers that come out exact are shown without trailing zeros. Every answer is calculated from the exact definitions and checked against the AllUnitConversions conversion engine before the PDF is produced. Matching reference chart: **allunitconversions.com/metric-conversion-chart**. Free to print, copy and share with attribution (CC BY 4.0).