

Grade 6 · Converting Measurement Units · Worksheet Answer Key

Common Core 6.RP.A.3d · mathovore.fr

This answer key shows a full worked solution for each of the 10 unit conversion problems, including the conversion factor used in every step. Compare your factors, your calculations, and the bold final answers with units.

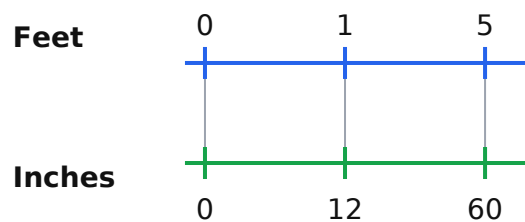
Grade 6 Common Core: 6.RP.A.3d

Problem 1: Feet to inches

Feet to inches: multiply by $\frac{12 \text{ in}}{1 \text{ ft}}$.

$$5 \times 12 = 60.$$

60 inches.



5 feet is 60 inches.

Problem 2: Inches to feet

Inches to feet: divide by 12.

$$84 \div 12 = 7.$$

7 feet.

Problem 3: Pounds to ounces

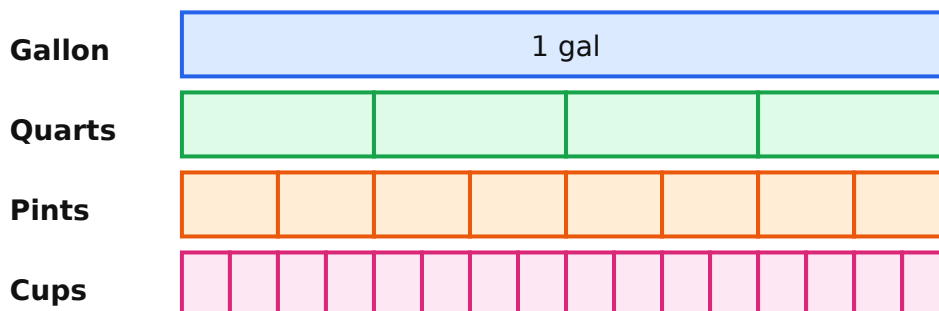
Multiply by $\frac{16 \text{ oz}}{1 \text{ lb}}$: $4 \times 16 = 64$.

64 ounces.

Problem 4: Gallons to quarts

Multiply by $\frac{4 \text{ qt}}{1 \text{ gal}}$: $3 \times 4 = 12$.

12 quarts.



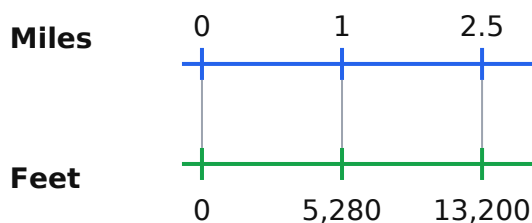
3 gallons is $3 \times 4 = 12$ quarts.

Problem 5: Miles to feet

Multiply by $\frac{5,280 \text{ ft}}{1 \text{ mi}}$: $2.5 \times 5,280 = 13,200$.

Check: $2 \times 5,280 = 10,560$ and half a mile is 2,640; $10,560 + 2,640 = 13,200$.

13,200 feet.



2.5 miles is 13,200 feet.

Problem 6: Feet to yards

Divide by 3 because 3 feet equal 1 yard: $18 \div 3 = 6$.

6 yards.

Problem 7: Cups, pints, and quarts

Pints: 2 cups equal 1 pint, so $12 \div 2 = 6$ pints.

Quarts: 2 pints equal 1 quart, so $6 \div 2 = 3$ quarts.

6 pints and 3 quarts.

Problem 8: Metric lengths

(a) $3.5 \times 1,000 = 3,500$ m.

(b) $450 \div 100 = 4.5$ m.

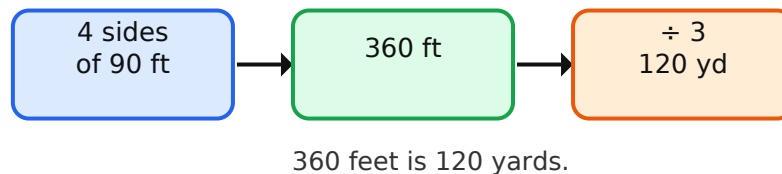
(a) 3,500 meters. (b) 4.5 meters.

Problem 9: Base paths

Distance: $4 \times 90 = 360$ feet.

Yards: $360 \div 3 = 120$.

360 feet, or 120 yards.



Problem 10: Hiking trail

Trail length in feet: $2 \times 5,280 = 10,560$.

Left: $10,560 - 6,600 = 3,960$ feet.

In miles: $3,960 \div 5,280 = 0.75$.

3,960 feet, which is 0.75 mile.