

Measurement & Conversions

Data & Measurement · Grade 4

Score: _____ / 10

★ Hard · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. A runner completes 5,000 m in 25 minutes.
What is the speed in km/h?

Answer: _____

2. Convert 72 km/h to metres per second.

Answer: _____

3. A bag weighs 4 lbs 6 oz. Convert to ounces.

Answer: _____

4. Convert 2 days 3 hours 45 minutes to minutes.

Answer: _____

5. A speed of 54 km/h — how many metres does the object travel per second?

Answer: _____

6. Convert 1 yard 2 feet 6 inches to inches only.

Answer: _____

7. A tank holds 4 L 250 mL of water.
Convert to millilitres.

Answer: _____

8. Convert 3 hours 25 minutes to seconds.

Answer: _____

9. How many ounces in 5 lbs 4 oz?

Answer: _____

10. Convert 2.5 km to metres, then to centimetres.

Answer: _____

Answer Key

Measurement & Conversions — Hard

1. **12 km/h**

$5,000\text{ m} = 5\text{ km}$ in $25\text{ min} = 25/60\text{ h}$. $\text{Speed} = 5 \div (25/60) = 5 \times 60/25 = 12\text{ km/h}$.

2. **20 m/s**

$72\text{ km/h} \times 1,000/3,600 = 72,000/3,600 = 20\text{ m/s}$.

3. **70 oz**

$4 \times 16 = 64\text{ oz}$. $64 + 6 = 70\text{ oz}$.

4. **3,105 minutes**

$2\text{ days} = 2,880\text{ min}$. $3\text{ hours} = 180\text{ min}$. $\text{Total: } 2,880 + 180 + 45 = 3,105\text{ min}$.

5. **15 m/s**

$54\text{ km/h} = 54,000\text{ m} / 3,600\text{ s} = 15\text{ m/s}$.

6. **66 inches**

$1\text{ yd} = 36\text{ in}$. $2\text{ ft} = 24\text{ in}$. $\text{Total: } 36 + 24 + 6 = 66\text{ in}$.

7. **4,250 mL**

$4 \times 1,000 + 250 = 4,250\text{ mL}$.

8. **12,300 seconds**

$3 \times 3,600 = 10,800$. $25 \times 60 = 1,500$. $\text{Total: } 12,300$.

9. **84 ounces**

$5 \times 16 = 80$. $80 + 4 = 84$.

10. **2,500 m or 250,000 cm**

$2.5\text{ km} = 2,500\text{ m} = 250,000\text{ cm}$.