

QUIZ High school · ages 14–18

Metric conversion quiz



12 multiple choice and 3 short answer. Round to 3 significant figures unless the answer is exact.

Name _____ Date _____ Class _____

Score _____ / 15

A**Multiple choice**

Circle the letter of the one best answer.

- 1 Convert 3.15 nm to m.
☐ A 3.15×10^{-7} m ☐ B 3.15×10^{-10} m
☐ C 3.15×10^{-9} m ☐ D 3.15×10^{-8} m
- 2 Convert 2.6 km to m.
☐ A 2.6×10^3 m ☐ B 2.6×10^5 m ☐ C 2.6×10^2 m ☐ D 2.6×10^4 m
- 3 Write 99,900,000 in scientific notation.
☐ A 9.99×10^{-7} ☐ B 9.99×10^8 ☐ C 9.99×10^6 ☐ D 9.99×10^7
- 4 Convert 2 in to μm .
☐ A 50,800 μm ☐ B 508,000 μm ☐ C 60,000 μm ☐ D 5,080 μm
- 5 Convert 6 ft to cm.
☐ A 0.197 cm ☐ B 183 cm ☐ C 1,830 cm ☐ D 18.3 cm
- 6 Convert 5 acre to ha.
☐ A 0.202 ha ☐ B 2.02 ha ☐ C 20.2 ha ☐ D 12.4 ha
- 7 Convert 45,000 cm^2 to m^2 .
☐ A 4.5 m^2 ☐ B 0.45 m^2 ☐ C 450 m^2 ☐ D 45 m^2
- 8 Convert 11.3 g/cm^3 to kg/m^3 .
☐ A 1,130,000 kg/m^3 ☐ B 1,130 kg/m^3
☐ C 113,000 kg/m^3 ☐ D 11,300 kg/m^3

- 9 Convert $1,200 \text{ kg/m}^3$ to g/cm^3 .
(A) 12 g/cm^3 (B) 0.12 g/cm^3 (C) 1.2 g/cm^3 (D) 120 g/cm^3
- 10 Convert 120 km/h to m/s .
(A) 36 m/s (B) 33.3 m/s (C) 333 m/s (D) 432 m/s
- 11 Convert 20°C to $^\circ\text{F}$.
(A) 43.1°F (B) 36°F (C) 93.6°F (D) 68°F
- 12 What is the symbol for the prefix “mega”?
(A) h (B) μ (C) M (D) n

B

Short answer

Write the answer with its unit. Show your working in the margin if you need to.

- 13 Convert: 0.75 kg to oz .

- 14 Convert: 35 mi/gal to km/L .

- 15 A dose is 0.25 mg per kilogram of body mass. How many micrograms does a 60 kg patient need?
