

ANSWER KEY

Quiz answers

ANSWER KEY

Grades 6–8 · 15 questions. Round answers to the nearest tenth where the question needs it.

QUICK CHECK

1

C

2

A

3

C

4

B

5

B

6

A

7

B

8

D

9

D

10

A

11

D

12

C

A. Multiple choice, with working

1 C. 93,500 mL

93.5 L: 3 steps down, decimal 3 places right = 93,500 mL

2 A. 21.1 cm

211 mm: 1 step up, decimal 1 place left = 21.1 cm

3 C. 164.0 ft

50 m × 1 ft/0.3048 m ≈ 164.0 ft

4 B. 68.0 kg

150 lb × 0.45359237 kg/1 lb ≈ 68.0 kg

5 B. 354.9 mL

12 fl oz × 29.5735295625 mL/1 fl oz ≈ 354.9 mL

6 A. 38.1 cm

15 in × 2.54 cm/1 in = 38.1 cm

7 B. 176.7 °C

Subtract 32, then multiply by 5/9: $(350 - 32) \times 5/9 = 318 \times 5/9 = 176.667$ °C.

8 D. -17.8 °C

Subtract 32, then multiply by 5/9: $(0 - 32) \times 5/9 = -32 \times 5/9 = -17.778$ °C.

9 D. 850 mL

0.5 L = 500 mL; 500 + 350 = 850 mL

10 A. tera

tera (T) = 10^{12} .

11 D. 120 mm

250 m; 600 cm; 120 mm; 12 km → convert to the same unit and compare.

12 C. 5 m²

$50,000 \text{ cm}^2 \times (1 \text{ m}/100 \text{ cm})^2 = 5 \text{ m}^2$

B. Short answer (model answers)

13 4.2 cups

$1,000 \text{ mL} \times 1 \text{ cup}/236.5882365 \text{ mL} \approx 4.2 \text{ cup}$

14 71.6 °F

Multiply by 9/5, then add 32: $22 \times 9/5 + 32 = 71.6$ °F.

15 16.1 km

$10 \text{ mi} \times 1.609344 \text{ km}/1 \text{ mi} \approx 16.1 \text{ km}$