Converting Measurement Units

Converting measurement units: Mistakes and missing information

Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

Multiply when converting a larger unit to a smaller unit, and divide in the other direction. Since 1 m $= 100$ cm, 2.4 m $= 2.4 \times 100 = 240$ cm. Since 60 min $= 1$ h, 150 min $= 150/60 = 2.5$ h. Use only the given conversion factors.

Worked example

Convert 3.5 m to cm using 1 m $= 100$ cm.

1. The conversion is 1 m $= 100$ cm.
2. $3.5 \times 100 = 350$ cm; reversing gives $350 \div 100 = 3.5$ m.
Answer: 350 cm.

Practice Problems

Show your thinking.

1. A student writes 6.4 m $= 0.064$ cm. Correct it using 1 m $= 100$ cm.

2. A trip lasts 240 minutes. Recover its hours. 60 min $= 1$ h.

3. Correct 3 kg $= 300$ g. Use 1 kg $= 1000$ g.

4. A parcel weighs 96 oz. Recover pounds. 16 oz $= 1$ lb.

5. A recipe says 1.5 qt is 0.375 cup. Correct it. 1 qt $= 4$ cups.

6. Explain the inverse conversion and check the missing value: _____ km $= 4500$ m. 1 km $= 1000$ m.

7. A student writes 2.5 h $= 25$ min. Repair it using 60 min $= 1$ h.

8. Find liters in a tank labeled 3200 mL. 1000 mL $= 1$ L.

Answer Key

1. 640 cm.
2. 4 h.
3. 3000 g.
4. 6 lb.
5. 6 cups.
6. $\frac{9}{2}$ km.
7. 150 min.
8. $\frac{16}{5}$ L.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The conversion is 1 m $= 100$ cm.
2. $6.4 \times 100 = 640$ cm; reversing gives $640 \div 100 = 6.4$ m.

Problem 2

1. The conversion is 1 min $= \frac{1}{60}$ h.
2. $240 \times \frac{1}{60} = 4$ h; reversing gives $4 \div \frac{1}{60} = 240$ min.

Problem 3

1. The conversion is 1 kg $= 1000$ g.
2. $3 \times 1000 = 3000$ g; reversing gives $3000 \div 1000 = 3$ kg.

Problem 4

1. The conversion is 1 oz $= \frac{1}{16}$ lb.
2. $96 \times \frac{1}{16} = 6$ lb; reversing gives $6 \div \frac{1}{16} = 96$ oz.

Problem 5

1. The conversion is 1 qt $= 4$ cups.
2. $1.5 \times 4 = 6$ cups; reversing gives $6 \div 4 = 1.5$ qt.

Problem 6

1. The conversion is 1 m $= \frac{1}{1000}$ km.
2. $4500 \times \frac{1}{1000} = \frac{9}{2}$ km; reversing gives $\frac{9}{2} \div \frac{1}{1000} = 4500$ m.

Problem 7

1. The conversion is 1 h $= 60$ min.
2. $2.5 \times 60 = 150$ min; reversing gives $150 \div 60 = 2.5$ h.

Problem 8

1. The conversion is 1 mL $= \frac{1}{1000}$ L.
2. $3200 \times \frac{1}{1000} = \frac{16}{5}$ L; reversing gives $\frac{16}{5} \div \frac{1}{1000} = 3200$ mL.

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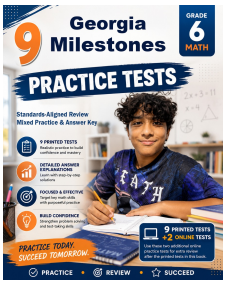

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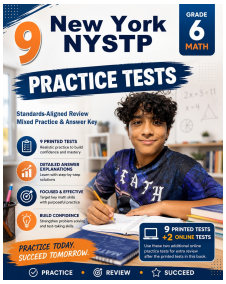

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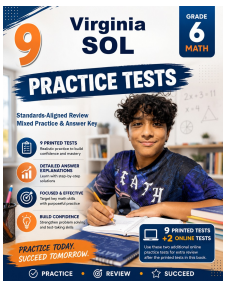

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