Mid-Chapter Review

Hint
Use the charts inside the back cover.

1. Compare. Write = or ≠ to make a true statement.

a) 8 bu [≠] 1 gal

b) 7 qt [=] 28 c

c) 5 kL [=] 5000 L

d) 4 cL [≠] 0.4 L

2. What is the capacity of each can in millilitres?

e.g., 1 L = 1000 mL

Large can: 3.43 L x 1000 mL/L = 3430 mL

Small can: 0.86 L x 1000 mL/L = 860 mL

3. Hans read on the Internet about a pickup truck with a fuel tank capacity of 34 gal (US). Hans buys gas in litres. What is the capacity in litres?

e.g., 1 gal ≐ 3.79 L, so 34 gal x 3.79 L/gal ≐ 128.86 L

The capacity is about 129 L.

4. Circle the greater volume in each pair.

a) 26 cu ft or (1 cu yd)

b) (6912 cu in.) or $2\frac{1}{2}$ cu ft

5. What can you multiply by to change one unit to the other?

a) cubic metres to cubic centimetres — x 1 000 000

b) cubic millimetres to cubic centimetres — x 0.001

6. Are there more cubic inches or cubic centimetres for the same volume? Why? cubic centimetres, because they are smaller

7. Madison sells cedar wood chips by whole cubic yards. A customer wants 60 cu ft of the wood chips for a pathway. How many cubic yards does the customer need?

e.g., 1 cu yd = 27 cu ft

60 cu ft ÷ 27 cu ft/cu yd = 2 cu yd and part of another cubic yard

The customer needs 3 cu yd of wood chips.

8. What is the volume of 8.4 cu yd of gravel, to the nearest tenth of a cubic metre?

e.g., 1 cu yd ≐ 0.76 m^3

8.4 cu yd x 0.76 m^3/cu yd ≐ 6.384, or about 6.4 m^3

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