



Printable assessments CAMI Mathematics: Grade 7

Volume

1. Complete the table by converting between units.

(a)

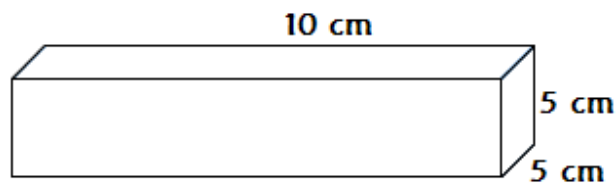
| kilolitre | Litre | ml |
|-----------|---------|---------|
| ? | 0.001 | 1 |
| 0.14 | ? | 140 000 |
| 130 | 130 000 | ? |

(b)

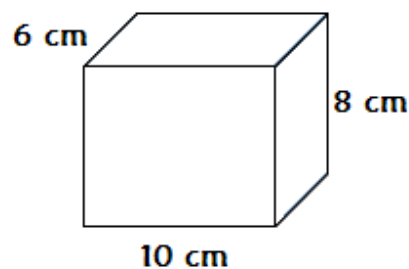
| m^3 | cm^3 |
|-------|-------------|
| 94 | ? |
| ? | 17 000 000 |
| ? | 140 000 000 |

2. Calculate the volume of the rectangular prisms using the given units.

(a)



(b)



3. Volume of a cube.

(a) If the volume of a cube is $27\,000\text{ cm}^3$, determine the length of the side of the cube.

(b) Determine the volume of a cube if the length of the side is 15 mm.



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MEMO

1. Conversions. [9.1.3.7]

(a)

| kilolitre | Litre | ml |
|-----------------|------------|--------------------|
| 0.000001 | 0.001 | 1 |
| 0.14 | 140 | 140 000 |
| 130 | 130 000 | 130 000 000 |

(b)

| m ³ | cm ³ |
|----------------|-------------------|
| 94 | 94 000 000 |
| 17 | 17 000 000 |
| 140 | 140 000 000 |

2. Volume of the rectangular prisms. [9.5.2.1]

(a) Volume = length × height × width
= 10 cm × 5 cm × 5 cm
= 250 cm³

(b) Volume = length × height × width
= 10 cm × 8 cm × 6 cm
= 480 cm³

3. Volume of a cube. [9.5.2.2]

(a) Volume = (side)³
27 000 cm³ = x³
x = 30 cm

(b) Volume = (side)³
= (15 mm)³
= 3 375 mm³