

Outcome 3 - Changing between cm³, millilitres & litres

Bronze examples

Examples...

8 ml = 8 cm ³ (leave it!)	4 cm ³ = 4 ml (leave it!)
5 l = 5000 ml (× 1000!)	14 000 ml = 14 l (÷ 1000!)
16 l = 16 000 cm ³ (× 1000!)	7000 cm ³ = 7 l (÷ 1000!)

Silver examples

Examples...

0.8 ml = 0.8 cm ³ (leave it!)	0.04 cm ³ = 0.04 ml (leave it!)
0.06 l = 60 ml (× 1000!)	9 ml = 0.009 l (÷ 1000!)
0.007 l = 7 cm ³ (× 1000!)	300 cm ³ = 0.3 l (÷ 1000!)

Gold examples

Examples...

0.527 ml = 0.527 cm ³ (leave it!)	0.45 cm ³ = 0.45 ml (leave it!)
0.0387 l = 38.7 ml (× 1000!)	67.9 ml = 0.0679 l (÷ 1000!)
0.00583 l = 5.83 cm ³ (× 1000!)	723 cm ³ = 0.723 l (÷ 1000!)

Bronze Questions

Change the following units of measurement...

- 1 5 cm³ = ? ml
- 2 6 l = ? ml
- 3 3 l = ? cm³
- 4 15 l = ? ml
- 5 24 l = ? cm³
- 6 90 ml = ? cm³
- 7 8000 ml = ? l
- 8 5000 cm³ = ? l
- 9 57 000 ml = ? l
- 10 49 000 cm³ = ? l

Silver Questions

Change the following units of measurement...

- 1 0.5 cm³ = ? ml
- 2 0.008 l = ? ml
- 3 0.07 l = ? cm³
- 4 0.3 l = ? ml
- 5 0.0002 l = ? cm³
- 6 0.06 ml = ? cm³
- 7 8 ml = ? l
- 8 30 cm³ = ? l
- 9 600 ml = ? l
- 10 0.9 cm³ = ? l

Gold Questions

Change the following units of measurement...

- 1 0.839 cm³ = ? ml
- 2 0.0236 l = ? ml
- 3 0.0742 l = ? cm³
- 4 0.973 l = ? ml
- 5 5.26 l = ? cm³
- 6 0.0608 ml = ? cm³
- 7 15.4 ml = ? l
- 8 2.79 cm³ = ? l
- 9 998 ml = ? l
- 10 0.652 cm³ = ? l

Key Facts/Formulae:

$$1 \text{ ml} = 1 \text{ cm}^3$$

$$1 \text{ litre} = 1000 \text{ ml} \quad 1 \text{ litre} = 1000 \text{ cm}^3$$

Bronze Answers

- | | |
|---------------------------|-----------------------|
| 1. 5 ml | 2. 6000 ml |
| 3. 3000 cm ³ | 4. 15 000 ml |
| 5. 24 000 cm ³ | 6. 90 cm ³ |
| 7. 8 l | 8. 5 l |
| 9. 57 l | 10. 49 l |

Silver Answers

- | | |
|------------------------|-------------------------|
| 1. 0.5 ml | 2. 8 ml |
| 3. 70 cm ³ | 4. 300 ml |
| 5. 0.2 cm ³ | 6. 0.06 cm ³ |
| 7. 0.008 l | 8. 0.03 l |
| 9. 0.6 l | 10. 0.0009 l |

Gold Answers

- | | |
|-------------------------|---------------------------|
| 1. 0.839 ml | 2. 23.6 ml |
| 3. 74.2 cm ³ | 4. 973 ml |
| 5. 5260 cm ³ | 6. 0.0608 cm ³ |
| 7. 0.0154 l | 8. 0.00279 l |
| 9. 0.998 l | 10. 0.000652 l |