

Changing between cubic centimetres, millilitres and litres



Key Facts/Formulae:

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

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



Hundreds of Thousands	Tens of Thousands	Thousands	Hundreds	Tens	Units	•	Tenths	Hundredths	Thousandths
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Outcome 1 - Changing between cubic centimetres, millilitres and litres

Examples...

$$4 \text{ ml} = 4 \text{ cm}^3$$

(leave it!)

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

$$9 \text{ l} = 9000 \text{ ml}$$

($\times 1000!$)

$$1 \text{ l} = 1000 \text{ ml}$$

$$12 \text{ l} = 12\,000 \text{ cm}^3$$

($\times 1000!$)

$$1 \text{ l} = 1000 \text{ cm}^3$$

Questions...

Change the following units of measurement...

1

$$5 \text{ ml} = ? \text{ cm}^3$$

2

$$40 \text{ ml} = ? \text{ cm}^3$$

3

$$750 \text{ ml} = ? \text{ cm}^3$$

4

$$10 \text{ l} = ? \text{ ml}$$

5

$$15 \text{ l} = ? \text{ ml}$$

6

$$504 \text{ l} = ? \text{ ml}$$

7

$$50 \text{ l} = ? \text{ ml}$$

8

$$5 \text{ l} = ? \text{ cm}^3$$

9

$$46 \text{ l} = ? \text{ cm}^3$$

10

$$621 \text{ l} = ? \text{ cm}^3$$

Outcome 2 - Changing between litres, millilitres and cubic centimetres

Examples...

$$5 \text{ cm}^3 = 5 \text{ ml}$$

(leave it!)

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

$$7000 \text{ ml} = 7 \text{ l}$$

($\div 1000!$)

$$1 \text{ l} = 1000 \text{ ml}$$

$$62\,000 \text{ cm}^3 = 62 \text{ l}$$

($\div 1000!$)

$$1 \text{ l} = 1000 \text{ cm}^3$$

Questions...

Change the following units of measurement...

1

$$8 \text{ cm}^3 = ? \text{ ml}$$

2

$$597 \text{ cm}^3 = ? \text{ ml}$$

3

$$6200 \text{ cm}^3 = ? \text{ ml}$$

4

$$4000 \text{ ml} = ? \text{ l}$$

5

$$17\,000 \text{ ml} = ? \text{ l}$$

6

$$803\,000 \text{ ml} = ? \text{ l}$$

7

$$90\,000 \text{ ml} = ? \text{ l}$$

8

$$14\,000 \text{ cm}^3 = ? \text{ l}$$

9

$$2000 \text{ cm}^3 = ? \text{ l}$$

10

$$600\,000 \text{ cm}^3 = ? \text{ l}$$

Outcome 1 Answers

- | | |
|---------------------------|-----------------------------|
| 1. 5 cm ³ | 2. 40 cm ³ |
| 3. 750 cm ³ | 4. 10 000 ml |
| 5. 15 000 ml | 6. 504 000 ml |
| 7. 50 000 ml | 8. 5000 cm ³ |
| 9. 46 000 cm ³ | 10. 621 000 cm ³ |

Outcome 2 Answers

- | | |
|------------|-----------|
| 1. 8 ml | 2. 597 ml |
| 3. 6200 ml | 4. 4 l |
| 5. 17 l | 6. 803 l |
| 7. 90 l | 8. 14 l |
| 9. 2 l | 10. 600 l |