

Outcome 1 - Changing between mm, cm & m

Bronze examples

Examples...

8 cm = 80 mm ($\times 10!$)	40 mm = 4 cm ($\div 10!$)
6 m = 600 cm ($\times 100!$)	700 cm = 7 m ($\div 100!$)
3 m = 3000 mm ($\times 1000!$)	9000 mm = 9 m ($\div 1000!$)

Silver examples

Examples...

0.02 cm = 0.2 mm ($\times 10!$)	8 mm = 0.8 cm ($\div 10!$)
0.009 m = 0.9 cm ($\times 100!$)	3 cm = 0.03 m ($\div 100!$)
0.8 m = 800 mm ($\times 1000!$)	4 mm = 0.004 m ($\div 1000!$)

Gold examples

Examples...

0.97 cm = 9.7 mm ($\times 10!$)	32 mm = 3.2 cm ($\div 10!$)
0.578 m = 57.8 cm ($\times 100!$)	12.9 cm = 0.129 m ($\div 100!$)
0.063 m = 63 mm ($\times 1000!$)	780 mm = 0.78 m ($\div 1000!$)

Bronze Questions

Change the following units of measurement...

- | | |
|-----------------|--------------------|
| 1 7 cm = ? mm | 2 5 m = ? cm |
| 3 8 m = ? mm | 4 22 m = ? cm |
| 5 37 m = ? mm | 6 90 mm = ? cm |
| 7 300 cm = ? m | 8 6000 mm = ? m |
| 9 5700 cm = ? m | 10 38 000 mm = ? m |

Silver Questions

Change the following units of measurement...

- | | |
|------------------|-----------------|
| 1 0.9 cm = ? mm | 2 0.03 m = ? cm |
| 3 0.006 m = ? mm | 4 0.8 m = ? cm |
| 5 0.07 m = ? mm | 6 2 mm = ? cm |
| 7 0.5 cm = ? m | 8 900 mm = ? m |
| 9 0.02 cm = ? m | 10 4 mm = ? m |

Gold Questions

Change the following units of measurement...

- | | |
|------------------|------------------|
| 1 0.47 cm = ? mm | 2 0.638 m = ? cm |
| 3 0.059 m = ? mm | 4 39.7 m = ? cm |
| 5 58.2 m = ? mm | 6 46.5 mm = ? cm |
| 7 0.756 cm = ? m | 8 74.3 mm = ? m |
| 9 0.089 cm = ? m | 10 9.04 mm = ? m |

Key Facts/Formulae:

$$1 \text{ cm} = 10 \text{ mm}$$

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ m} = 1000 \text{ mm}$$

Bronze Answers

- | | |
|--------------|------------|
| 1. 70 mm | 2. 500 cm |
| 3. 8000 mm | 4. 2200 cm |
| 5. 37 000 mm | 6. 9 cm |
| 7. 3 m | 8. 6 m |
| 9. 57 m | 10. 38 m |

Silver Answers

- | | |
|-------------|-------------|
| 1. 9 mm | 2. 3 cm |
| 3. 6 mm | 4. 80 cm |
| 5. 70 mm | 6. 0.2 cm |
| 7. 0.005 m | 8. 0.9 m |
| 9. 0.0002 m | 10. 0.004 m |

Gold Answers

- | | |
|--------------|---------------|
| 1. 4.7 mm | 2. 63.8 cm |
| 3. 59 mm | 4. 3970 cm |
| 5. 58 200 mm | 6. 4.65 cm |
| 7. 0.00756 m | 8. 0.0743 m |
| 9. 0.00089 m | 10. 0.00904 m |