

Conversion of Units (Length Metric) **KEY**

Convert the following (Show your Steps)

1. 12km to mm	$12\text{km} \cdot \frac{1000\text{m}}{1\text{km}} \cdot \frac{100\text{cm}}{1\text{m}} \cdot \frac{10\text{mm}}{1\text{cm}} = 12\,000\,000\text{mm}$
2. 3400cm to km	$3400\text{cm} \cdot \frac{1\text{m}}{100\text{cm}} \cdot \frac{1\text{km}}{1000\text{m}} = \frac{3400}{100 \cdot 1000} = 0.034\text{km}$
3. 0.12km to cm	$0.12\text{km} \cdot \frac{1000\text{m}}{1\text{km}} \cdot \frac{100\text{cm}}{1\text{m}} \cdot \frac{10\text{mm}}{1\text{cm}} = 120\,000\text{mm} = 12\,000\text{cm}$
4. 1 234 000m to mm	$1\,234\,000\text{m} \cdot \frac{100\text{cm}}{1\text{m}} \cdot \frac{10\text{mm}}{1\text{cm}} = 1\,234\,000\,000\text{mm}$
5. 0.35m to mm	$0.35\text{m} \cdot \frac{100\text{cm}}{1\text{m}} \cdot \frac{10\text{mm}}{1\text{cm}} = 350\text{mm}$
6. 450mm to m	$450\text{mm} \cdot \frac{1\text{cm}}{10\text{mm}} \cdot \frac{1\text{m}}{100\text{cm}} = \frac{450}{10 \cdot 100} = 0.45\text{m}$
7. 356cm to km	$356\text{cm} \cdot \frac{1\text{m}}{100\text{cm}} \cdot \frac{1\text{km}}{1000\text{m}} = \frac{356}{(100 \cdot 1000)} = 0.00356\text{km}$
8. 0.43km to m	$0.43\text{km} \cdot \frac{1000\text{m}}{1\text{km}} = 430\text{m}$
9. 23m to km	$23\text{m} \cdot \frac{1\text{km}}{1000\text{m}} = \frac{23}{1000} = 0.023\text{km}$
10. 0.002m to mm	$0.002\text{m} \cdot \frac{100\text{cm}}{1\text{m}} \cdot \frac{10\text{mm}}{1\text{cm}} = 2\text{mm}$