

1. 0.057 m to km

$$\frac{0.057 \cancel{\text{m}}}{1} \times \frac{1 \text{ km}}{1000 \cancel{\text{m}}} = 5.7 \times 10^{-5} \text{ km}$$

2. 13 cm
- ³
- to mL

$$\frac{13 \cancel{\text{cm}^3}}{1} \times \frac{1 \text{ mL}}{1 \cancel{\text{cm}^3}} = 1.3 \times 10^1 \text{ mL}$$

3. 0.986 hours to seconds

$$\frac{0.986 \cancel{\text{h}}}{1} \times \frac{3600 \text{ s}}{1 \cancel{\text{h}}} = 3549.6 \text{ s}$$

4. 3.004 L to mL

$$\frac{3.004 \cancel{\text{L}}}{1} \times \frac{1000 \text{ mL}}{1 \cancel{\text{L}}} = 3004 \text{ mL}$$

$$3.004 \times 10^3 \text{ mL}$$

5. 86 kg to g

$$\frac{86 \cancel{\text{kg}}}{1} \times \frac{1000 \text{ g}}{1 \cancel{\text{kg}}} = 8.6 \times 10^4 \text{ g}$$

6. 24 cm
- ³
- to L

$$\frac{24 \cancel{\text{cm}^3}}{1} \times \frac{1 \cancel{\text{mL}}}{1 \cancel{\text{cm}^3}} \times \frac{1 \text{ L}}{1000 \cancel{\text{mL}}} = 2.4 \times 10^{-2} \text{ L}$$

7. 56,000 µg to kg

$$\frac{56,000 \cancel{\mu\text{g}}}{1} \times \frac{1.0 \times 10^{-9} \text{ kg}}{1 \cancel{\mu\text{g}}} = 5.6 \times 10^{-5} \text{ kg}$$

8. 56 km to mm

$$\frac{56 \cancel{\text{km}}}{1} \times \frac{1000 \cancel{\text{m}}}{1 \cancel{\text{km}}} \times \frac{1000 \text{ mm}}{1 \cancel{\text{m}}} = 5.6 \times 10^7 \text{ mm}$$

9. 20 km to feet

$$\frac{20 \cancel{\text{km}}}{1} \times \frac{1000 \cancel{\text{m}}}{1 \cancel{\text{km}}} \times \frac{100 \cancel{\text{cm}}}{1 \cancel{\text{m}}} \times \frac{1 \text{ in}}{2.54 \cancel{\text{cm}}} \times \frac{1 \text{ ft}}{12 \cancel{\text{in}}} = 6.5616 \times 10^4 \text{ ft}$$

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Score : _____

Teacher : _____

Date : _____

How Many Significant Digits for Each Number?

1) 0.00860 = 3

11) 2.6×10^9 = 2

2) 0.00100 = 3

12) 300 = 1

3) 8017 = 4

13) 0.0506 = 3

4) 2.300×10^{-5} = 4

14) 1×10^{-7} = 1

5) 2.559×10^4 = 4

15) 58.2 = 3

6) 3.0×10^{-3} = 2

16) 9090 = 3

7) 0.0676 = 3

17) 790 = 2

8) 4.39×10^{-4} = 3

18) 9950 = 3

9) 0.0004 = 1

19) 0.21520 = 5

10) 4806 = 4

20) 1×10^1 = 1