

Name : _____

Score : _____

Teacher : _____

Date : _____

How Many Significant Digits for Each Number?

1) 0.00860 = 4

11) 2.6×10^9 = 3

2) 0.00100 = 3

12) 300 = 3

3) 8017 = 4

13) 0.0506 = 4

4) 2.300×10^{-5} = 4

14) 1×10^{-7} = 3

5) 2.559×10^4 = 3

15) 58.2 = 2

6) 3.0×10^{-3} = 3

16) 9090 = 4

7) 0.0676 = 1

17) 790 = 3

8) 4.39×10^{-4} = 4

18) 9950 = 4

9) 0.0004 = 4

19) 0.21520 = 1

10) 4806 = 4

20) 1×10^1 = 3



Worksheet: Metric Conversions

Name Ruben

1. 0.057 m to km

$$\frac{0.057 \text{ m}}{1 \text{ km}} \times \frac{1 \text{ km}}{1000 \text{ m}} = 5.7 \mu\text{m}$$

2. 13 cm³ to mL

$$\frac{13 \text{ cm}^3}{1 \text{ mL}} \times \frac{1 \text{ mL}}{1 \text{ cm}^3}$$

3. 0.986 hours to seconds

$$\frac{0.986 \text{ hr}}{60 \text{ s}} \times \frac{60 \text{ min}}{1 \text{ hr}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 3.55 \times 10^3 \text{ s}$$

4. 3.004 L to mL

$$\frac{3.004 \text{ L}}{1} \times \frac{1000 \text{ mL}}{1 \text{ L}} = 3.004 \times 10^3 \text{ mL}$$

5. 86 kg to g

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

6. 24 cm³ to L

$$\frac{24 \text{ cm}^3}{100} \times \frac{1 \text{ L}}{1000 \text{ mL}} = 2.4 \times 10^2 \text{ L}$$

7. 56,000 μg to kg

$$\frac{56000 \mu\text{g}}{1 \text{ kg}} \times \frac{1 \text{ kg}}{1000 \text{ g}} \times \frac{1 \text{ g}}{1000 \mu\text{g}} = 5.6 \times 10^8 \mu\text{g}$$

8. 56 km to mm

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

9. 20 km to feet

$$\frac{20}{1} \times \frac{1000}{1 \text{ km}} \times \frac{100}{\text{cm}} \times \frac{1 \text{ in}}{2.54 \text{ cm}} \times \frac{1 \text{ foot}}{12 \text{ in}} = 7 \times 10^4 \text{ feet}$$