

Name : _____ 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



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1. 0.057 m to km

2. 13 cm³ to mL

3. 0.986 hours to seconds

4. 3.004 L to mL

5. 86 kg to g

6. 24 cm³ to L

7. 56,000 μg to kg

8. 56 km to mm

9. 20 km to feet

1. 0.057 m to km

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

2. 13 cm
- ³
- to mL

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

3. 0.986 hours to seconds

$$? \text{ s} = \frac{0.986 \cancel{\text{hours}}}{1} \times \frac{60 \cancel{\text{min}}}{1 \cancel{\text{hour}}} \times \frac{60 \text{ s}}{1 \cancel{\text{min}}} = \boxed{3.55 \times 10^3 \text{ s}}$$

4. 3.004 L to mL

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

5. 86 kg to g

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

6. 24 cm
- ³
- to L

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

7. 56,000 μg to kg

$$? \text{ kg} = \frac{56,000 \cancel{\mu\text{g}}}{1} \times \frac{1 \cancel{\text{g}}}{1,000,000 \cancel{\mu\text{g}}} \times \frac{1 \text{ kg}}{1000 \cancel{\text{g}}} = \boxed{5.6 \times 10^{-5} \text{ kg}}$$

8. 56 km to mm

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

9. 20 km to feet

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