Name : Sarah Garrett Score : _____

Teacher : Ms. Parker Date : _____

How Many Significant Digits for Each Number?

1) 0.00860 = 3

2) 0.00100 = 3

3) 8017 = 4

4) 2.300×10^{-5} = 4

5) 2.559×10^{4} = 4

6) 3.0×10^{-3} = 2

7) 0.0676 = 3

8) 4.39×10^{-4} = 3

9) 0.0004 = 1

10) 4806 = 4

11) 2.6×10^{9} = 2

12) 300 = 1

13) 0.0506 = 3

14) 1×10^{-7} = 1

15) 58.2 = 3

16) 9090 = 3

17) 790 = 2

18) 9950 = 3

19) 0.21520 = 5

20) 1×10^{1} = 1

Worksheet: Metric Conversions

Name Sarah Garrett

1. 0.057 m to km

$\frac{.057}{1} \times \frac{1}{1000} = 5.7 \times 10^{-5}$ km

2. 13 cm^3 to mL

$\frac{13}{1} \times \frac{1}{1} = 1.3 \times 10^{1}$ mL

3. 0.986 hours to seconds

$\frac{.986}{1} \times \frac{60}{1} \times \frac{?}{1} = 3.55 \times 10^{3}$ s

4. 3.004 L to mL

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

5. 86 kg to g

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

6. 24 cm^3 to L

$\frac{24}{1} \times \frac{1}{1} \times \frac{1}{1000} = 2.4 \times 10^{-2}$ L

7. 56,000 μg to kg

$\frac{56000}{1} \times \frac{1}{1,000,000} \times \frac{1}{1000} = 5.6 \times 10^{-5}$ kg

8. 56 km to mm

$\frac{56}{1} \times \frac{100}{1} \times \frac{1000}{1} = 5.6 \times 10^{7}$ mm

9. 20 km to feet

$\frac{20}{1} \times \frac{1000}{1} \times \frac{100}{1} \times \frac{1}{2.54} \times \frac{1}{12} = 7 \times 10^{4}$ ft