

Scientific Notation

Practice Problems

		# Significant Figures
1.	230.005 m	<u>6</u>
2.	109,000 kg	<u>3</u>
3.	328.46 mm	<u>5</u>
4.	0.00607 cm	<u>3</u>
5.	5.017 L	<u>4</u>
6.	8000 km	<u>1</u>
7.	0.057 g	<u>2</u>
8.	610.0 kPa	<u>4</u>

Scientific Notation

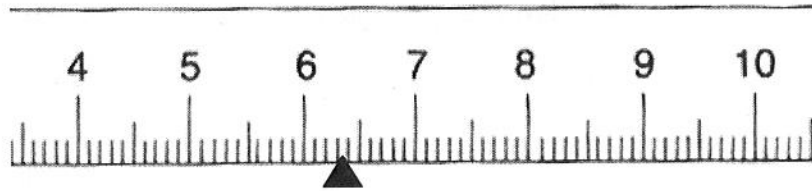
<u>2.30005×10^2 m</u>
<u>1.09×10^5 kg</u>
<u>3.2846×10^2 mm</u>
<u>6.07×10^{-3} cm</u>
<u>5.017×10^0 L</u>
<u>8×10^3 km</u>
<u>5.7×10^{-2} g</u>
<u>6.100×10^2 kPa</u>

		# Significant Figures
9.	6.54×10^{-5} m	<u>3</u>
10.	3.22×10^4 g	<u>3</u>
11.	8.9256×10^6 s	<u>5</u>
12.	2.11×10^{-2} g	<u>3</u>
13.	9.52×10^{-9} m	<u>3</u>

Non-Scientific Notation

<u>0.0000654 m</u>
<u>32200 g</u>
<u>8925600 s</u>
<u>0.0211 g</u>
<u>0.00000000952 m</u>

Directions: For #14-#16, use the ruler below to obtain your answer.



14. This ruler measures to the nearest tenths place.
15. This means that we can estimate to the hundredths place.
16. The triangle above is pointing to a measurement of 6.35 (assume cm).

17. $6.44 \text{ cm} + 9.9009 \text{ cm}$ *add = L#DP* 18. $4.44 \text{ m} \times 9.1 \text{ m}$ *multi = L#SF*

16.3409 cm 40.404 m^2

16.34 cm

OR 40 40.2 _m or $4.0 \times 10^1 \text{ m}^2$

19. $55.43 \text{ g} - 0.5 \text{ g}$ *sub = L#DP* 20. $67.8 \text{ L} \div 103.7 \text{ L}$ *div = L#SF*

54.93 g 0.653809064

54.9 g

0.654 no units bec the L cross out.