

Science And Measurement Worksheet

1. Complete the following table of equivalents.

a) 369 mm	= _____ cm	g) 807 cm ³	= _____ ml
b) 0.427 m	= _____ mm	h) 14.5965 l	= _____ cm ³
c) 704 cm	= _____ m	i) 108 g	= _____ kg
d) 615 cm	= _____ km	j) 0.823 g	= _____ mg
e) 8.973 km	= _____ m	k) 0.0009390 kg	= _____ mg
f) 2.46 ml	= _____ l	l) 125 ml water	= _____ g water

2. In the following, give the power of ten equivalent of the prefix, and give the prefix equivalent of the numerical value.

a) centi- = _____	e) hecto- = _____	i) 10 ⁻² = _____
b) kilo- = _____	f) pico- = _____	j) 10 ⁹ = _____
c) micro- = _____	g) 10 ⁻⁹ = _____	k) 0.001 = _____
d) mega- = _____	h) 10 ¹² = _____	l) 0.1 = _____

3. How many significant figures are there in each of the following?

a) 273.16	_____	e) 3,000,000	_____	i) 5280	_____
b) 186,000	_____	f) 240,000	_____	j) 0.070830	_____
c) 707	_____	g) 0.00623	_____	k) 6.52 x 10 ⁻²	_____
d) 1000	_____	h) 40.070	_____	l) 9.040 x 10 ⁵	_____

4. In the following, convert the numbers in common notation to exponential notation, and convert numbers in exponential notation to common notation.

a) 93,000,000	= _____	d) 2.997 x 10 ¹⁰	= _____
b) 0.00019	= _____	e) 8.03 x 10 ⁻⁵	= _____
c) 404.39	= _____	f) 4.5359 x 10 ²	= _____

5. Give the order of magnitude of each of the following.

a) 8.3 x 10 ⁶	_____	d) 1.428 x 10 ⁻²	_____
b) 2.75 x 10 ⁴	_____	e) 7.793 x 10 ⁻⁸	_____
c) 6.023 x 10 ²³	_____	f) 4.99 x 10 ⁻¹¹	_____