

SIGNIFICANT PROBLEMS

1. For each of the following numbers, indicate the number of significant figures:

	number	number of significant figures	rule #
a)	541.2		1
b)	23,459		1
c)	2,034		2
d)	1.0009		2
e)	65.0		3
f)	202.0		2,3
g)	0.045		4
h)	0.0080		3,4
i)	4,320		5

2. Do the following calculations and record the answers with the correct number of significant figures:

a) $3.29 \text{ g}/6.15 \text{ cm}^3$

c) $5.23 \text{ cm} \times 38 \text{ cm}$

e) $1.283 \text{ m} \times 4.5 \text{ m}$

b) $2.04 \text{ kg} + 6.13 \text{ kg} + 18.92 \text{ kg} =$

d) $18.25 \text{ g} - 3.9 \text{ g}$