 ĵ) 10	g) 45	e) 98	c) 92	a) 98	Repo						Ther	e) 0.00219	a) 921	Deter		Ther	Sign
10.×300.=	45.20 x 0.0071 = h)	98 x 0.006 = £	920.7 / 4.32 = d)	986.72 / 5.12 = b	Report the answer to the following problems, paying particular attention to the correct number of sig. figs.	Reminder: Rounding-off rules: Go to next number. If it is 0-4, round down. If it is 5-9, round up.	4s.f. 3s.f. 6s.f.	b) 28.44 + 3.12 = "9.080128205"	4s.£ 3s.£ 6s.£	Example: a) 28.33 x 3.12 = "88.3896"	There are also rules for reporting numbers when you multiply and/or divide: 1) Count the sig. figs. in the numbers you are multiplying and/or dividing. Your answer should be rounded off to the smallest number of sig. figs. in your problem.	f) 93,000,000	b) 92100	Determine the number of significant figures (s.f.) in each of the following:	2) If there <u>is</u> a decimal point—start at the LEFT and count, beginning with the first non-zero digit. Examples 340. 3 s.f. 30400. 5 s.f. 0.34955 5 s.f. 0.00040 2 s.f.	There are two rules for determining the number of significant figures: 1) If there is no decimal point-start at the RIGHT and count, beginning with the first non-zero digit. 2 s.f. 3400 3 s.f. 34955 5 s.f.	Significant Figures Worksheet #1 Name
j) 10./3=	9.0/3.0 =	.009430 x 4310.9 =	400.20 x 3.010 =	b) 497.7/3.0 =	tion to the correct number of sig. figs.	it is 9-4, round down. Fit is \$-9, round up.	so round to 3 s.f. Your answer will be reported as 9.08	205" ←——calculator answer	so round to 3 s.f. Your answer will be reported as 88.4	calculator answer	indior divide: undor dividing. Your answer should be problem.	g) 93,000,003 h) 93,000,000	c) 92100. d) 0.000210	owing:	, beginning with the first non-zero digit.	igures: unt, beginning with the first non-zero digit	Block

There are also different rules for reporting the answer when you add or subtract:

1) The answer should have the same number of decimal places as that of the number with the least decimal.

Example: 4.838 g +1.0033 g +21.0033 g +3.3853 g +3.3

NOTE: IN ADDITION AND SUBTRACTION, DECIMAL POINTS MUST BE LINED UP!!

How many S.F.	d) 73 -14,98	a) 0.004598 +4	Solve the following problems:	g) <u>0.300 x .802</u> = 30.44	d) 0.00235 - 3.0 =	a) 0.2 x 43.98 =	How many S.F. s	a) 86730	Round off the following to 2 S.F	a) 871	How many sig. fi	Additional practice problems:	e) 336,000 — 33,000.03 =	a) 0.00000313 +17
How many S.F. are in the following numbers?	e) 8.0 -1.99	b) 43.2 x 30.3 x 17.0 = 43.30 x 0.0045 x 99	ig problems:	h) <u>39.04 x 1.009</u> =	e) 143.000 - 3.45 =	b) 43,000,000 x 0.00546=	How many S.F. should be in the following answers: (Don't work out the problems!)	b) 120.99c) _0003450_	lowing to 2 S.F.	b) 190. c) 0.000190	How many sig. figs in the following number?	æ problems:	000.03 =	ъ; b) 4,9670 <u>- 3.1</u>
	f) 17.0 + 1.4 - 8.9 =	c) 338855.0 ±10000000.003		i) 0.00390 x 2.0098 =	f) 3.40 x 0.04 =	c) 43.0 – 17.2 =	work out the problems!)	d) 0.0555 e) 9898989		d) 606.0 e) 1.008			f) 0.991 =	c) 0.000343 d) 78 +0.17 - 99