Name:
Blk:Date:
Chemistry 11 ELECTRONEGATIVITY + COVALENT BONDING
ELECTRONEGATIVITY- the tendency of an atom to attract electrons from a neighbouring atom. The following exercises are intended to help you get a better understanding of what trends in electronegativity occur in the periodic table:
Example 1. Use the atoms Na and CI for the following questions: a. Which atom has a larger atomic radius? \(\sum_{\text{\tex
Example 2. Compare Br and At a. Which atom has a larger atomic radius?

Example 3.

a. Ignoring the NOBLE GASES, which atom is the most ELECTRONEGATIVE?

- b. Ignoring the NOBLE GASES, which atom is the least ELECTRONEGATIVE? To
- c. Which is more electronegative: Cs of Be?

d. Which is more electronegative: Sn or F?

H 2.2			TAB	LE O	FEL	ECT.	RON	NEGA	ATIVI	TIES	3:					
Li 1.0	Be 1.5											B 2.0	C 2.5	N 3.0	O 3.5	F 3.9
Na 0.9	Mg 1.2											AI 1.5	Si 1.8	P 2.1	S 2.4	CI 3-8
K 0.9	Ca 1.0	Sc 1.3	Ti 1.5	V 1.6	Cr 1.6	Mn 1.5	Fe 1.8	Co 1.8	Ni 1.8	Cu 1.9	Zn 1.7	Ga 1.6	Ge 1.8	As 2.0	Se 2.4	Br 2.7
Rb 0.8	Sr 1.0	Y 1.2	Zr 1.4	Nb 1.6	Mo 1.8	Tc 1.9	Ru 2.2	Rh 2.2	Pd 2.2	Ag 1.9	Cd 1.5	In 1.7	Sn 1.8	Sb 1.9	Te 2.1	1 2.2
Cs 0.7	Ba 0.9	La-Lu 1.1	Hf 1.3	Ta 1.5	W 1.7	Re 1.9	Os 2.2	Ir 2.2	Pt 2.2	Au 2.4	Hg 1.4	TI 1.8	Pb 1.9	Bi 1.9	Po 2.0	At 2.2
Fr 0.7	Ra 0.9		Source	: L. Pa	uling, T	he Nati	ure of th	e Cher	nical Bo	ond and	the Str	ucture	of Mole	cules a	nd Crys	stals,

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