CONCEPT: SUMMARY OF MAGNETISM PROBLEMS

● Remember: Electric Charges and Magnets both **(a)** PRODUCE A FIELD and **(b)** FEEL A FORCE:

● Most Magnetism problems have to do with calculating the magnitude of:

(1) A(n) _____ Magnetic Field being PRODUCED;

(2) A Force FELT due to a(n) _____ Magnetic Field.

● We will calculate Fields PRODUCED BY and Forces FELT BY Electric → **(i)** _____, **(ii)** _____.

- What about Magnets? No calculations, only directions!

→ KEY Difference: Magnets **ALWAYS** Produce Fields AND Feel Forces.

- Electric CHARGES produce Fields AND feel Forces **ONLY IF** they are _____.

- Electric WIRES produce Fields AND feel Forces **ONLY IF** they have _____.