Math Basic Skills: Experts vs. Novices

Basic Skills (I): Number Facts:

Number Facts: Frequently used sums, differences, and products you must know

- > Experts faster at retrieving these.
- ➤ More automated.

Number sense: Making numbers and number systems meaningful.

➤ Needed for good problem solving strategies.

Basic Skills (II): Algorithms

Algorithms: Sequence of steps, if performed correctly, will achieve desired outcome with 100% accuracy:

- > Experts faster at retrieving these
- ➤ More automated
- ➤ Novices have more "bugs" in their procedures

Linear algebra:

- > Experts faster and more accurate procedures
- ➤ Many steps composed into automatic algorithm