

Student copy 19

COMPARISON TABLE

Algebraic Problems

OVERALL CONCEPT

① CONCEPT
Equations

③ CHARACTERISTICS

Contains an equal sign (=)
Variable (x)
Numbers
Symbols
One answer

$$x = 2$$

① CONCEPT
Inequalities

③ CHARACTERISTICS

Contains inequality signs (<, >, ≤, ≥)
Variable (x)
Numbers
Math symbols
More than 1 answer

$$x > 2$$

③ EXTENSIONS

④ LIKE CHARACTERISTICS

Variables
Numbers
Symbols

③ UNLIKE CHARACTERISTICS

1 answer
Multiple answers (solution set)

⑤ LIKE CATEGORIES

What they contain

⑦ UNLIKE CATEGORIES

Number of solutions

⑧ SUMMARY

E and I are similar because they both contain #'s and symbols.

- Step 1: Communicate targeted concepts
- Step 2: Obtain Overall Concept
- Step 3: Make lists of known characteristics
- Step 4: Pin down Like Characteristics
- Step 5: Assemble Like Categories
- Step 6: Record Unlike Characteristics
- Step 7: Identify Unlike Categories
- Step 8: Nail down a summary
- Step 9: Go beyond the basics