

Sturman's Key

Winner

24 pts =

First Round

Sodium acetate



Second Round



Semifinals



Finals



Winner

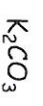
24 pts =

Potassium thiocyanate



(2 ions)

Potassium carbonate

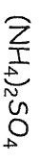


(3 ions)

Zinc chloride



Ammonium sulfate

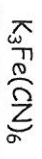


(3 ions)

Potassium permanganate

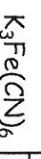


Calcium hypochlorite

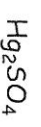
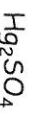


(4 ions)

Potassium ferricyanide



Mercury(I) sulfate

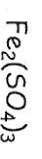
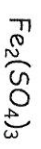


(2 ions)*

Titanium(IV) oxide

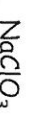


Iron(III) sulfate



(5 ions)

Sodium chlorate

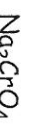


Copper(I) chloride



(3 ions)

Sodium chromate



Calcium hydroxide



(4 ions)

Potassium phosphate



Answer Key

Sweet 16 Chemistry Compound Tournament

1st round - write formula

most # atoms wins

2nd round - # of ions wins

3rd: higher charge on cation wins

4th: larger molar mass wins

*The mercury(I) ion exists as Hg_2^{2+} .