



ROYAL AUSTRALIAN CHEMICAL INSTITUTE
NATIONAL CHEMICAL ANALYSIS COMPETITION
South Australian Section

RESULT SHEET

SCHOOL PHASE

SCHOOL : _____ TEAM No : _____

NAME : _____

TEAM MEMBER CODE for Unknown **A** **B** **C** (circle one only)

Concentration of STANDARD oxalic acid solution provided : _____ g / L

Titration of standard oxalic acid solution against sodium hydroxide solution NaOH

Volume of pipette used : _____ mL

Titres : (place X next to any values you have ignored in subsequent calculations)

V (mL)	1	2	3	4	5
V _{final}					
V _{initial}					
Titre					

Average titre : _____ mL

Titration of unknown oxalic acid solution against sodium hydroxide solution NaOH

Volume of pipette used : _____ mL

Titres : (place X next to any values not used in further calculations)

V (mL)	1	2	3	4	5
V _{final}					
V _{initial}					
Titre					

Average titre : _____ mL

CALCULATIONS (Show in this space)

$$c(\text{unknown}) = \frac{\text{Average titre unknown}}{\text{Average titre known}} \times c(\text{standard})$$

Estimated concentration of UNKNOWN oxalic acid solution : _____ g/L

SIGNATURE : _____ CHECKED : _____