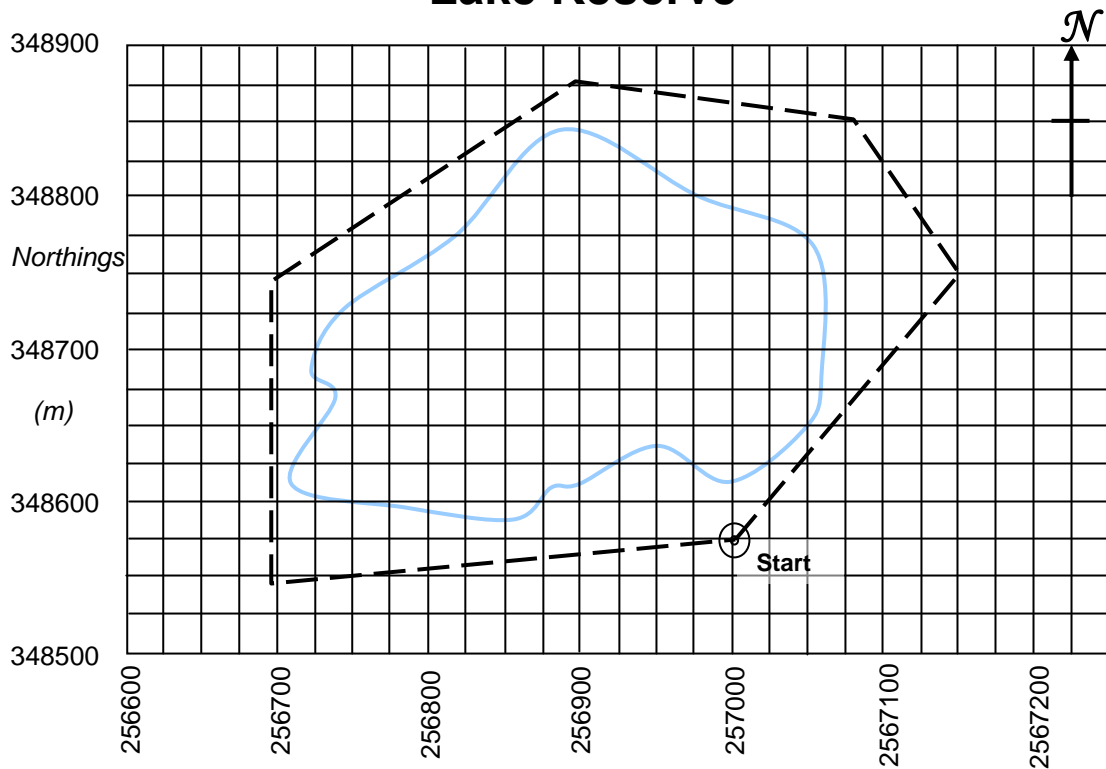


MATHEMATICS ANSWERS

Level One

“Lake Reserve”



2)		ΔN	ΔE	N	E
Start				348575	257000
40	232	177.72	149.13	348753	257151
325	125	102.39	-71.70	348855	257079
276	182	19.02	-181.00	348874	256898
238	236	-125.06	-200.14	348749	256698
180	200	-200.00	0.00	348549	256698

3)	Distance	304.8m
	Bearing	85° Approx

4) $232 + 125 + 182 + 236 + 200 + 304.8 = 1279.8 \text{ m}$

- 5) 73 squares in the land within the traverse
 $\Rightarrow 25\text{m by } 25\text{m square each square} = 625\text{m}^2$
 $\Rightarrow 72 \times 625 = 45,620 \text{ m}^2$
 $\Rightarrow 4.62 \text{ ha (allow a range of answers)}$

- 6) 96.5 squares in the lake
 $\Rightarrow 25\text{m by } 25\text{m square each square} = 625\text{m}^2$
 $\Rightarrow 96.5 \times 625 = 60,312 \text{ m}^2$
 $\Rightarrow 6.03 \text{ ha (or accept full area calculation based on shapes, minus answer from 5)}$