Statistics Day 2009 NCEA 2011: Laying foundations for inference in 2010

Rationale

Immersing Year 10 students in ideas about sample, population, sampling variability, and "making a call" is essential for laying the foundations for the NCEA Standard 1.10 on comparing box plots. Our current research shows that as teachers we have much to learn about how best to facilitate students' understanding of these ideas. It also shows that students need at least two years to develop the reasoning and thinking required for NCEA level one statistics standards.

Since it is urgent that teachers take action next year, a main part of the Statistics Teachers' Day will be focussed on everyone learning about how to reason inferentially. We will begin (in plenary session 2) with an overview of key ideas for inferential reasoning. Then everyone (in workshop sessions 1A and 1B) will be involved in participating in hands-on student activities and thinking about how to promote, in students, the ability to "see" and compare sample distributions, how to expand students' attention from the data in hand to some wider universe, and how to draw conclusions taking sampling variability into account. Finally in a wrap-up session (in workshop session 2) we will present some examples of students' work and invite everyone to comment on how we can work together to grow students' inferential reasoning and lay the foundations for learning inference in 2010.

When:	Tuesday 24 November 2009	
Where:	University of Auckland, Tamaki Campus	
Time:	8:45am – 3:05pm	
Cost:	AMA School Members:	\$80 incl GST
	AMA Personal Members:	\$60 incl GST
	Non-Members:	\$100 incl GST
	Pre-service teachers:	\$80 incl GST
8:45 – 9:00am	Registration:	Foyer of Building 722
9:00 – 10:00am	Plenary Session 1:	
	A talk from a practising statistician (To be advised)	
10:00 – 10:30am	Morning tea (provided)	
10:30 – 11:10am	Plenary Session 2: NCEA 2011: Laying foundations for inference in 2010	
	Dr Maxine Pfannkuch, Statistics Dept, University of Auckland Pip Arnold, Team Solutions, University of Auckland	
11:15am – 12:15pm	Workshop Session 1A	
	5 workshops on laying four	ndations for inference
12:15 – 1:00pm	Lunch (provided)	
1:00 – 2:00pm	Workshop Session 1B	
	5 workshops continue	
2:05 – 3:05pm	Workshop Session 2	
	Wrap-up on session 1 including a discussion of the NCEA Achievement Standard 1.10	
	Workshops on Probability	
	Workshop on Statistical Literacy	



Statistics Day 2009 (Tuesday 24 November)

Registration Form

Please complete the form below and either post to PO Box 26 226, Epsom, Auckland 1344 or email to <u>aklmathsassn@gmail.com</u>

Please make payments by internet banking to Account No. 12 3031 0788930 00 Use reference code: StatDay and the name of your school.

Alternatively, post your cheque (payable to the Auckland Mathematical Association) to: PO Box 26 226, Epsom, Auckland 1344

Payment is expected with registration.

Due to space restrictions, numbers will be limited to the first 150 paid registrations.

Note: Please state any specific dietary requirements for any participants, e.g., gluten-free, vegetarian

Deadline: Friday 20 November (or earlier if full)

NAME(S):	
SCHOOL:	
PHONE NO.:	EMAIL:
PAID ONLIN	E On DATE or CHEQUE ENCLOSED
ORDER NO.:	

Auckland Mathematical Association, PO Box 26 226, Epsom, Auckland 1344 aklmathsassn@gmail.com