## **Question 4**

## 2010 HSC Mathematics

**Band 1/2** 

Sample 1 Start here for Question Number: 4 a, 1, a=1km; d= 750  $T_{r} = 1t(9-1).750$ = 1 + 6 = 7 Km  $\frac{1}{1}, \frac{n}{2}$ 2a + (n-1)d 10-1,751 10 -+ 6750 n-4 IC n - 107km + 4(0.750) = 11. = 11th week runs exactly 10.km.

**Question 4** 

2010 HSC2Mathematics

**Band 1/2** 

Sample-750 111 2(1)26 2(10) 2 20+250 2 + 18.75 13 + -269.75+ 3510. 3779.75 Rm. . 2 b 0 2 76 e 6 2 2(2) 2(i)P Additional writing space on back page.

Office Use Only - Do NOT write anything, or make any marks below this line.

**Question 4** 

## 2010 HSC Mathematics

			Sample '
, 4mint, 4 car,	4straw.	= 12.	
4		nc	
0(1) 12 × 2	27	ms	
$P(2) = \frac{4}{12} \times 2 =$	3.	mm	
1		CΣ	
4		cm	
• •		c L S M	
1, _		5 M	
2		55.	
	0		
$f(x) = 1 + e^{x}$	$f(x) \times f$	(->() = f(>()+ f	(- >c).
$(1 + e^{\times}) \times (1 - e^{\times})$	- (1 - a × )	scale A 21, 40×	)
			/
(1+ex) x (1-ex) :	$=(1+e^{-x})-($	(1-e <sup>2</sup> )	

You may ask for an extra Writing Booklet if you need more space to answer question 4.

