Probability 2F Assessment

Foundation Level



Clip	Grade	Title of clip	Question(s)	Marked out of	Score	%
151	4	Simple Tree Diagrams	1	6		
152	4	Sampling Populations	2	5		
153	4	Time Series	3	4		
175	5	Harder Tree Diagrams	4	6		
176	5	Stratified Sampling	5	4		

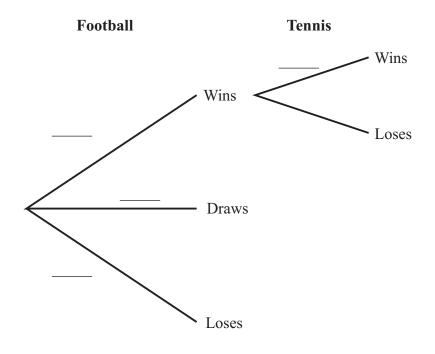
Out of 25 TOTAL SCORE _____

Final Percentage 9/6

- Mario plays one game of football with his team, followed by one game of tennis on his own.

 The probability that Mario's team wins at football is 0.4 and the probability that they draw is 0.1.

 The probability that Mario wins at tennis is 0.7.
 - a) Complete the probability tree diagram.



- 12) In Katy's year 7 class there are 32 students. 8 of them have a cat.

There are 1440 students in the school in total.

- a) Use this information to estimate the number of students in the school that have a cat. ______
- b) Ali says that using just Katy's class is not a good sample.

Suggest two ways to improve the sample.

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c) Describe a method that Ali could use to select a better sample of students.

3

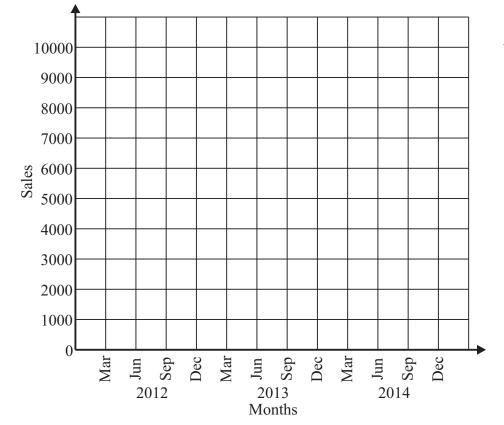
3) The total sales of mobile phones are recorded every 3 months for 3 years by a phone company.

The results are shown in the table.

3

Month	Sales (nearest 1000)
March 2012	4000
June 2012	3000
September 2012	5000
December 2012	7000
March 2013	6000
June 2013	5000
September 2013	6000
December 2013	9000
March 2014	7000
June 2014	6000
September 2014	8000
December 2014	10000

a) Draw a time series graph of this data.



b) Comment on the trend.

A THEFT PARTS A	sweet at randor	n from the h	ag and eats it		
	sweet, at randor				
	another sweet,				
a) Draw a tree	e diagram in the	space below	to show all the	possibilities.	
				s?e same colour? _	
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