

SURVEY USING SAMPLE

Pearson Edexcel - Thursday 9 June 2016 - Paper 2 (Calculator) Higher Tier

1.

19			11	2	M1 for $\frac{51}{234} \times 50$ oe (= 10.89...) A1 for 11 (accept 10)
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Pearson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier

2.

21			9 or 10	2	M1 for $35 \div 148 \times 40$ A1 9 or 10
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Pearson Edexcel - Friday 13 June 2014 - Paper 2 (Calculator) Higher Tier

3.

8	(a)		$\frac{29}{100}$	2	M1 for $13 + 11 + 5$ (=29) A1 for $\frac{29}{100}$ oe (SC B1 for $\frac{16}{100}$ oe)
	(b)		195	2	M1 for $1500 \times \frac{13}{100}$ oe A1 for 195
	(c)		reasons	2	B2 for 2 valid reasons eg sample too small, customers at this time may not be representative of ages of all customers (B1 for 1 reason)

Pearson Edexcel - Friday 13 June 2014 - Paper 2 (Calculator) Higher Tier

4.

23	(a)		Explanation	1	B1 for appropriate explanation eg "a sample in the same proportions as the population"
	(b)		26	2	M1 for $\frac{314}{599} \times 50$ (=26.2...) A1 cao

Pearson Edexcel - Monday 11 June 2012 - Paper 1 (Non-Calculator) Higher Tier

5.

1	(a)		Type of film Tally Frequency	2	B2 for a table with all 3 aspects: Column/row heading 'type of film' or list of at least 3 film types Column/row heading 'tally' or tally marks (or key) Column/row heading 'frequency' or totals oe (B1 for a table with 2 of the 3 aspects)
	(b)			1	B1 for acceptable reason eg. all same age, sample too small, biased, same school

Pearson Edexcel - Friday 11 June 2010 - Paper 4 (Calculator) Higher Tier

6.

24	(a)	Explanation: Each member of the population has an equal chance of selection		1	B1 for explanation
	(b)	Description: Eg. number each stamp and use random select on calculator.		1	B1 for an acceptable description
	(c)	$50 \times \frac{95}{662} = 7.175\dots$	7	2	M1 for $50 \times \frac{95}{662}$ or 7.1, 7.2, 7.17, 7.18, 7.175... A1 Accept 7 or 7.0

Pearson Edexcel - Tuesday 10 November 2009 - Paper 4 (Calculator) Higher Tier

7.

4			Reason	1	B1 for 'The first 2 pages may not be typical of the whole magazine' oe or 'sample size too small' oe
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OCR GCSE – Tuesday 2 November 2017 – Paper 4 (Calculator) Higher Tier

8.

9		<p>Finding the number in each category e.g. Venn diagram</p> <p>and $n = 437 - \text{their } 127 - 62 - 153$ or 95</p> <p>or two-way table</p> <table border="1"> <tr> <td></td> <td>S</td> <td>S'</td> <td></td> </tr> <tr> <td>M</td> <td>62</td> <td>127</td> <td>189</td> </tr> <tr> <td>F</td> <td>95</td> <td>153</td> <td>248</td> </tr> <tr> <td></td> <td>157</td> <td>280</td> <td>437</td> </tr> </table> <p>and a common representation to compare</p> <p>e.g. percentages $\frac{95}{248} \times 100 = 38.3\%$</p> <p>and</p> <p>38[.3...] or 0.38[3...] [so No]</p>		S	S'		M	62	127	189	F	95	153	248		157	280	437	6	<p>B3 for 95 or B2 for 157 or B1 for 127 and M2 for $\frac{\text{their } 95}{\text{their } 95 + 153} [\times 100]$ or $[0].4 \times 248$ so by 99.2 or M1 for $\frac{\text{their } 95}{n}$ ($n > \text{their } 95$) or B1 for 248 A1 for 38[.3...] or 0.38[3...] to a maximum of 5 marks</p> <p>OR</p> <p>B3 for a complete and correct Venn diagram or table or B2 for a correct Venn diagram or table with n not calculated and M1 for a correct method to calculate n or B1 for Venn diagram or table with two correct values in the correct places and M1 for choosing a common representation to compare the statement with the comment e.g. decimals or percentages and A1 for one of the two numbers correct e.g. with percentages 38.3.... or 40</p>	<p>Note : $\frac{95}{248}$ scores 5 marks</p> <p>accept any correct method e.g.</p>
	S	S'																			
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