

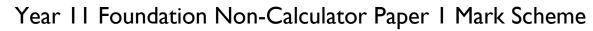
Question	Answer	Marks	Notes and guidance
la	5567	I	
Ib	75 + 65	I	Accept 65 + 75
2	Cat  Dog  Rabbit  Fish  Other	2	Award I mark for a correct method to find the number of fish owned seen or implied. e.g. 72 – (15 + 20 + 14 + 11)
3a	а	I	Allow Ia
3b	35 <i>ab</i>	I	
4	I     5       2     6     6     8       3     2     3     5     6     7     9       4     0     2     2     4     5       5     I     6	3	Award I mark for a completed unordered stem and leaf diagram or one omission from an ordered diagram.  Award 2 marks for a fully completed correctly ordered diagram.  Award I mark for a correct key



5a	e.g. $40 \times 9 = £360$	2	Award I mark for both values rounded to one significant figure use for an estimation Award 2 <sup>nd</sup> mark for 360 seen Award 0 marks for an exact value of £383.03
5b	e.g. Underestimate as both values have been rounded down	I	Allow ft from their part a Award 0 marks for "underestimate" stated without correct justification
6	10 -8 -6 -4 -2 0 2 4 6 8 10  -10 -8 -6 -4 -2 -2 -2 -4 -6 8 10	2	Award I mark for a correct reflection through $y = k$ where $k \neq 1$ , or through $x = 1$



7	n > 2.5	2	Award I mark for a correct first step to solve seen or implied e.g. $4n>10$ Accept equivalent answers e.g. $n>\frac{5}{2}$
8	4	3	Award I mark for either 30% of 80 (= 24) or $\frac{4}{7}$ of 35 (= 20) correctly evaluated Award 2 <sup>nd</sup> mark for both values evaluated
9	e.g. $2 \times 2 \times 2 \times 2 \times 3 \times 5$	2	Award I mark for a process to find prime factors of 240 i.e. a completed prime factor tree  Accept equivalent answers
10a	£1500	2	Award I mark for $25 \times 60$ seen or implied
I0b	20 months	2	Award I mark for 600 ÷ 30 seen or implied
11	e.g. vertical axis has an inconsistent scale bars are not of equal width	2	Award I mark for each valid criticism
I2a	4 3 1 0 0	1	
I2b	$6.52 \times 10^{-3}$	I	
I2c	3.2 × 10 <sup>6</sup>	2	Award I mark for a correct method seen or implied e.g. $(9.6 \div 3) \times (10^4 \div 10^{-2})$ or $96000 \div 0.03$





13	9.6 kg	3	Award I mark for a correct scaling seen or implied i.e. $100$ leaflets = $1.6$ kg  Award I mark for a correct method seen to evaluate the mass of $600$ kg e.g. " $1.6$ " $\times$ 6 or " $1.6$ " $+$ 8
I4a	4	I	
I4b	270 cm <sup>3</sup> < 1000 cm <sup>3</sup>	3	Award I mark for a correct method to find the volume of the cylinder seen or implied i.e. $3 \times 3^2 \times 10$ Award I mark for $270 \text{cm}^3$ Award I mark for a correct comparison made against I litre



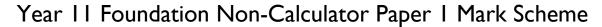
15	Over 18 32  Female Under 18 35  Over 18 28  Under 18 25	2	Award I mark for 67 females or 35 females under 18 identified
I 6a	e.g.	I	Or - 4 - 7 = -11
16b	12	I	
17	0.85 km	I	
18a	5	2	Award I mark for $3 \times 7 - 2 \times 8$ seen or implied



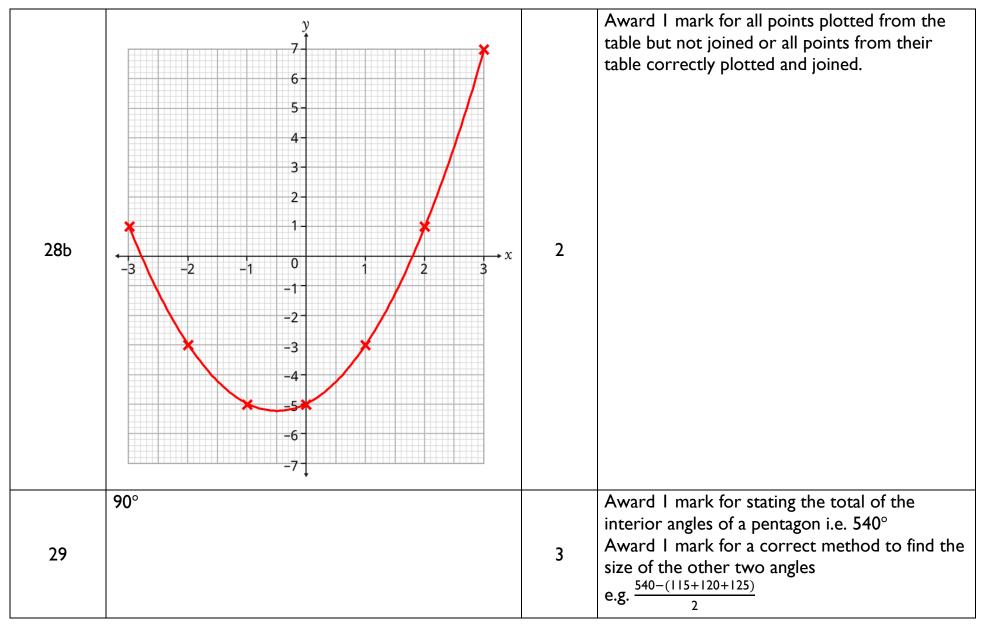
18b	32	2	Award I mark for $\frac{1}{2} \times 64$ seen or implied
19	I	I	
20	plan side	2	Award I mark for each correct drawing. Accept rotated form of plan but not side
21	£1648	2	Award I mark for any complete correct method e.g. attempt to find 3% and add on, or attempt at $1600 \times 1.03$
22	13	2	Award I mark for 780 ÷ 60 seen or implied.
23	$\frac{3}{5}$ , $\frac{612}{1000}$ , 0.62, 65%, 0.8	2	Award I mark converting all values to an equivalent form, or one item misplaced.
24	4n - 10	2	Award I mark for $4n + k$ where $k \neq -10$

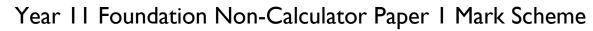


<b>25</b> a	13 40	2	Award I mark for writing each fraction as an equivalent with a common denominator i.e. $\frac{25}{40} - \frac{12}{40}$ Accept equivalent fractions not simplified as a final answer e.g. $\frac{26}{80}$
25b	$\left  \right  \frac{2}{9}$	2	Award I mark for $\frac{11}{5} \times \frac{5}{9}$ seen or implied
26	Colour     red     green     blue     yellow     purple       Probability     0.24     0.17     0.17     0.17     0.25	2	Award I mark for method to find P(G or B or Y) seen or implied e.g. I — 0.49
27a	I:2:6	2	Award I mark for forming an equivalent ratio not its simplest form e.g. 15 : 30 : 180
27b	£100	2	Award I mark for 450 ÷ their 9 seen or implied
<b>28</b> a	x         -3         -2         -1         0         1         2         3           y         I         -3         -5         -5         -3         I         7	2	











30	Her speed is less than the speed limit	3	Award I mark for a correct method to calculate the speed of the journey e.g. $18 \times 3$ or $18 \div \frac{1}{3}$ Award I mark for 54 mph seen or implied Award final mark for a correct conclusion with working stated Award 0 marks for "less" with no or incorrect supporting working.
31	x = -4  or  x = 3	2	Award I mark for a correct method to solve quadratic e.g. $(x + 4)(x - 3)$ seen. Allow one slip, but their attempt at factorisation must produce at least 2 correct terms when expanded.