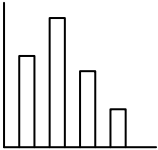
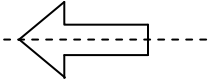


5540F/1 Foundation Non Calc					
Question		Working	Answer	Mark	Notes
1	(a)		3000	1	B1 for 3000 cao
	(b)		4681	1	B1 for 4681 cao
	(c)		five thousand and sixty	1	B1 for five thousand and sixty
2	(a)		8 cm or 80mm	2	B1 for 7.8 – 8.2 or 78 – 82 or $3 - 3\frac{3}{16}$
	(b)		Midpoint	1	B1 for appropriate unit cm or mm or inches B1 for midpoint marked $\pm 2\text{mm}$
3	(a)		16	1	B1 for 16 cao
	(b)		26	1	B1 for 26 cao
	(c)			1	B1 for one box with 4 divisions and 2 small boxes.
4	(a)		6, 17, 24, 168	1	B1 for 6, 17, 24, 168
	(b)		0.5, 1.8, 3.71, 12.4	1	B1 for 0.5, 1.8, 3.71, 12.4
5		$\frac{60}{2} \times 5 =$	1.50	3	M2 for $\frac{60}{2} \times 5$ oe or 150 seen { M1 for $\frac{60}{2}$ or 30 seen or 60×5 or 300 seen or 0.6×5 or 3(.00) seen A1 for 1.5(0)(p) Accept 150p with £ crossed out
6	(a)		162	1	B1 for 162 cao
	(b)(i)		York	2	B1 for York cao
	(ii)		Leeds		B1 for Leeds cao

5540F/1F					
Question		Working	Answer	Mark	Notes
7	(a)(i)		(1, 4)	2	B1 for (1, 4) cao
	(ii)		(4, 0)		B1 for (4, 0) cao
	(b)(i)		<i>P</i> marked at (3, 2)	2	B1 for <i>P</i> marked at (3, 2)
	(ii)		<i>Q</i> marked at (−4,3)		B1 for <i>Q</i> marked at (−4,3)
8	(a)		Bars drawn at heights 8, 5 and 3	2	B2 for 3 bars drawn correctly (B1 for one bar drawn correctly or for 3 bars with correct heights)
	(b)		Blue	1	B1 ft for “blue” (ft from table or their bar chart)
9	(a)			1	B1 for completed shape cao
	(b)			1	B1 for line of symmetry drawn
10	(i)	$9 - 5$	4	3	B1 for 4 cao
	(ii)	$20 \div 10$	2		B1 for 2 cao
	(iii)	$7 + 2$	9		B1 for 9 cao

5540F/1F					
Question		Working	Answer	Mark	Notes
11	(a)		$\frac{2}{5}$ Reason	2	B1 for $\frac{2}{5}$ B1 for correct reason. E.g. “ $\frac{2}{5}$ does not cancel to $\frac{1}{2}$ ” or “2 is not half of 5” or “ $\frac{2}{5}$ is 0.4” or “ $\frac{2}{5}$ is less than $\frac{1}{2}$ ” or “(the top is even and) the bottom is odd” oe
	(b)	$3 \times (20 \div 4)$	15	2	M1 for $3 \times (20 \div 4)$ oe or $\frac{60}{4}$ or 5 seen A1 for 15 cao
12	(a)	3×6	18	1	B1 for 18 cao
	(b)	$2 \times 3 + 2$	8	2	M1 for $2 \times 3 + 2$ A1 for 8 cao
13	(a)		metres (m) grams (g) litres (l)	3	B3 all correct, accept abbreviations (B1 for each one correct)
	(b)	4×100	400	1	B1 for 400 cao
	(c)	$1500 \div 1000$	1.5	1	B1 for 1.5 cao

5540F/1F					
Question		Working	Answer	Mark	Notes
14	(a)		$\begin{array}{c} B \\ \text{---} \times \text{---} \end{array}$	1	B1 for B marked on line $0.25 \leq B < 0.5$
	(b)		(g, t), (y, h), (y, t) (b, h), (b, t)	2	B2 for 5 correct pairs (order within brackets need not be consistent, ignore pairs repeated) and no incorrect pairs (B1 for 2 or more correct pairs, ignore any incorrect pairs)
15	(a)(i)	$180 - 45$	135	2	B1 for 135 cao
	(ii)		Reason		B1 for (angles on a straight) line add to 180°
	(b)	$180 - (80 + 60)$	40	2	M1 for $180 - (80 + 60)$ A1 for 40 cao
16	(a)		0.92	1	B1 for 0.92 cao
	(b)		$\frac{3}{100}$	1	B1 for $\frac{3}{100}$ cao
	(c)	$\frac{5}{100} \times 400$	20	2	M1 for $\frac{5}{100} \times 400$ oe A1 for 20 cao
17	(a)		129 - 133	1	B1 for 129 - 133
	(b)	6×50	290 - 310	2	B2 for 290 - 310 (B1 for 6 ± 0.2 (cm) seen or for $d \times 50$ with $3 \leq d \leq 9$)
	(c)		Point C marked	2	B1 for $BC = 7 \pm 0.2$ cm B1 for bearing = $60 \pm 2^\circ$

5540F/1F					
Question		Working	Answer	Mark	Notes
18	(a)		$(-8), -5, (-2), 1, 4, 7$	2	B2 for all 4 values (B1 for any 2 correct)
	(b)	Points + line	Correct line	2	B2 cao for correct line between $x = -3$ and $x = 2$ (B1 ft for plotting 4 points correctly or for a line with gradient 3 or for a line passing through (0,1))

5540F/1F					
Question	Working		Answer	Mark	Notes
19	540 24 2160 10800 12960 1 2 5 4 0 9 6 0 2 4 20 4 500 40 0 10000 800 0 2000 160 0 10000 + 2000 + 800 160 = 12960 5 0.4 100 8 20 20 1.6 4 100 + 20 + 8 + 1.6 = 129.6		129.6(0)	3	M1 for a complete method with relative place value correct. Condone 1 multiplication error, addition not necessary. OR M1 for a complete grid. Condone 1 multiplication error, addition not necessary. OR M1 for sight of a complete partitioning method, condone 1 multiplication error. Final addition not necessary. A2 for 129.6(0)(p) cao (A1 (dep on M1) for correct placement of decimal point after final addition or for digits 1296(0) seen) SC: B1 for addition of 24 lots of 5.4(0) or 540

5540F/1F					
Question		Working	Answer	Mark	Notes
20	(a)	$\frac{4}{12} + \frac{1}{12}$	$\frac{5}{12}$	2	M1 for $\frac{4}{12}$ or for attempting to use a suitable common denominator other than 12, at least one of the two fractions correct. A1 for $\frac{5}{12}$ oe OR Attempt to use decimals, must use at least 2 d.p. M1 for 0.33(33...) + 0.08(33...) A1 for 0.416 recurring
	(b)	$\frac{3 \times 1}{4 \times 5}$	$\frac{3}{20}$	1	B1 for $\frac{3}{20}$ oe
21	(a)	$4 \times 3a - 4 \times 7$	$5d$	1	B1 for $5d$ or $5 \times d$
	(b)		$2y^2$	1	B1 for $2y^2$ or $2 \times y^2$
	(c)		$12a - 28$	2	M1 for $4 \times 3a$ or 4×7 or $12a$ or 28 A1 for $12a - 28$ cao
	(d)		t^3	1	B1 for t^3 (accept t^{1+2} oe)
	(e)		m^2	1	B1 for m^2 (accept m^{5-3} oe)

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Question		Working	Answer	Mark	Notes
22	(a)		$\begin{array}{r l} 2 & 378 \\ 3 & 1456 \\ 4 & 12455 \\ 5 & 023 \end{array}$ $2 \mid 3 = 23$	3	M1 for using 2, 3, 4 and 5 as stem A1 for ordered stem and leaf diagram A1 for consistent key, e.g. $2 \mid 3 = 23$ (years) OR M1 for using 20, 30, 40 and 50 as stem A1 for ordered stem and leaf diagram A1 for consistent key, e.g. $20 \mid 3 = 23$ (years)
	(b)		$\frac{8}{15}$	2	B2 ft for $\frac{8}{15}$ (ft from stem and leaf diagram) (B1 for $\frac{8}{a}$, $a > 8$, or $\frac{b}{15}$, $b < 15$) SC: B1 for '8' : '15' or '8' out of '15'
23	(a)	$300 \div 25$	12	2	M1 for $25 + 25 + 25 + \dots$ or " 3 " $\div 25$ or $\pounds 1 = 4$ oe A1 for 12 cao
	(b)		$3x$	1	B1 for $3x$ or $3 \times x$
	(c)		$x + 5$	1	B1 for $x + 5$ cao
24		$\frac{1}{2}(3 \times 4) \times 2$ $+ (3 \times 7) + (4 \times 7) + (5 \times 7) =$ $12 + 21 + 28 + 35$	96	3	M1 for $\frac{1}{2}(3 \times 4)$ or 3×7 or 5×7 or 4×7 M1 for attempt to add 5 faces which are areas A1 for 96 cao NB: Zero marks for calculating volume

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Question		Working	Answer	Mark	Notes
25	(a)		1632	1	B1 for 1632 or 1632.0
	(b)		16.32	1	B1 for 16.32 cao
	(c)		3.4	1	B1 for 3.4 cao
26		$\frac{300 \times 10}{0.5} = \frac{3000}{0.5}$	5890 - 6040	3	M1 for any two of 300, 10 or 0.5 M1 for $\frac{3000}{0.5}$ or 300×20 or 600×10 or $\frac{3020}{0.5}$ or 302×20 or 604×10 A1 for 5890 - 6040 SC: B2 for answer of 1500 or 1510
27			Correct construction	2	M1 for constructing intersecting arcs of equal radius. A1 for a correct triangle, with appropriate arcs. SC: B1 for a triangle drawn within guidelines if M0 scored. NB: Guidelines allow for 2mm tolerance
28			-2, -1, 0, 1, 2	2	B2 for -2, -1, 0, 1, 2 cao (B1 for 4 correct or for 4 correct and one incorrect or for 5 correct and one incorrect)

5540F/1F					
Question		Working	Answer	Mark	Notes
29	(a)	Triangle A	Triangle with vertices (-1,5), (-1,3), (3,3)	2	B2 for triangle with vertices (-1, 5), (-1, 3), (3, 3) (B1 for triangle with correct orientation or for triangle rotated $\pm 90^\circ$ centre (-1, 1))
	(b)	Triangle B	Triangle with vertices (1,-2), (5,-2), (5,-4)	1	B1 for triangle with vertices (1, -2), (5, -2), (5, -4)
	(c)	Triangle C	Triangle with vertices (1,1.5), (1,4), (2,4)	2	B2 for triangle with vertices (1, 1.5), (1, 4), (2, 4) (B1 for the triangle with correct orientation or for any two of the vertices (1, 1.5), (1, 4), (2, 4)) SC: B1 for a triangle with vertices (1, 1.5), (1, k), (2, k)