No		Working	Answer	Mark	Notes	
1	a		five hundred and seven	1	B1	
	b		238	1	B1	cao
	c	$507 \div 54$ or 9.388…		2	M1	
			10		A1	cao SC if M0, B1 for 9
2	i		cube	2	B1	Accept cuboid
	ii		cylinder		B1	Accept circular prism
3	a		90	1	B1	cao
	b		$\frac{3}{10}$	1	B1	oe
	c		0.03	1	B1	cao
	d		62.5	2	B2	(B1 for digits 625 seen or for 62 or 63)
4	a		3	1	B1	cao
	b		243, 729	1	B1	cao
	c	eg all terms are odd or 2176 is even or 2176 is not a multiple of 3		1	B1	
5	a		bar chart	3	B2	for correct heights of bars (B1 for 2 correct)
					B1	for label or scale on vertical axis
	b	12 : 18		2	M1	for 12:18 or 6:9 or 4:6
			2 : 3		A1	
						SC if M0, B1 for 3:2 or 1:1.5

No	Working	Answer	Mark	Notes
6 a		8 rectangles shaded	1	B1
b		$\frac{6}{10}$ $\frac{12}{20}$	2	B2 B1 for each correct (−B1 for each incorrect)
c		$\frac{3}{4}$	1	B1
d	$78 \div 6$ or 13		2	M1
		65		A1 cao
e	eg 0.375, 0.4, 0.3, 0.35		2	M1 for 3 correct conversions to decimals, % or common denominator
		$\frac{3}{10}$ $\frac{7}{20}$ $\frac{3}{8}$ $\frac{2}{5}$		A1
7 ai		metres, m	2	B1
ii		kilograms, kg tonnes, t		B1
bi		200	2	B1 cao
ii		1500		B1 cao
8 a		7	1	B1 cao
b		6*nt* or 6*tn*	1	B1 Accept *nt*6 or *tn*6
c	$3\times5-4\times\frac{1}{2}$		2	M1
		13		A1 cao
9 a		57	1	B1 cao
b		3	1	B1 Condone 1:3 or ×3
ci		27	2	B1 cao
ii		6		B1 cao
d		drawing	2	B2 for 9 cm, 4 cm, 90° and 57° ie ignore *y* (B1 for 9 cm, 4 cm and 90° or for 57° angle)

No	Working	Answer	Mark	Notes
10 a		30	1	B1 cao
b		3 4 7 8 8	3	B3 for correct answer or ft from (a) for "4" (B2 for 3 X 7 8 8 B1 for mode or median correct)
11 ai		38	2	B1 cao
ii	eg sum of angles on a straight line is 180°			B1 indep
bi	$\frac{180-"38"}{2}$		3	M1
		71		A1 ft from (a)(i)
ii		Reason		B1 for mentioning isosceles and equal or base angles or equal sides and equal or base angles
12 a	(1, H) (2, H) (3, H) (4, H) (1, T) (2, T) (3, T) (4, T)		2	B2 Condone omission of (2,T) (B1 for at least 4 correct)
b	$1-(0.2+0.1+0.4)$		2	M1
		0.3		A1
c		170	1	B1 cao
13 a	eg $\frac{45}{100}\times 60$		2	M1
		27		A1 cao
b	$\frac{68}{80}$ or 0.85		2	M1
		85		A1 cao
c	eg $\frac{72}{0.6}$		2	M1
		120		A1 cao

No	Working	Answer	Mark	Notes
14 ai		$3x + 2y$	4	B2 (B1 for $3x$ or $2y$)
ii		$p - 7q$		B2 (B1 for (1)p or $-7q$)
b		$5(2c - 3)$	1	B1
15	$525 \div 3$ or 175		2	M1
		875		A1 cao
16	$\pi \times 3.8$		2	M1
		11.9		A1 for 11.9 or better (11.93805…) 3.14→11.932
17 a	Splits shape appropriately		4	M1 eg rectangle + triangle or rectangle + trapezium
	eg 90×70 (6300) or 150×90 (13 500)			M1 dep on 1st M1 for relevant rectangle area
	eg $\left(\frac{110 + 90}{2}\right) \times 80$ (8000) or $\frac{1}{2} \times 80 \times 20$ (800)			M1 dep on 1st M1 for relevant triangle or trapezium area
		14 300		A1 cao
b	$\frac{"14300"}{10000} \times 160$		2	M1
		228.8		A1 ft from (a) Condone rounding to nearest kg (229 if (a) correct)
18	$5x - 2x = 3 - 1$		3	M1
	$3x = 2$			M1
		$\frac{2}{3}$ oe		A1 Accept 0.66 or 0.67 or better

No	Working	Answer	Mark	Notes
19	2.366	1.5381…	2	M1 A1 for at least first 5 figures
20 a		$y^2 + 2y$	1	B1 oe inc $y \times y + 2 \times y$
b	$6x + 3$ and $2x - 8$	$8x - 5$	2	M1 A1 cao
21 a	$\frac{3 \times 4}{2}$ or 6 "6"×7	42	3	M1 M1 A1
b	"6"×2 $3 \times 7 + 4 \times 7 + 5 \times 7$ or 21 + 28 + 35	96	3	M1 M1 A1 ft from "6"
22	eg $x + 4x = 10$ or sum of $x + y = 10$ and $4x - y = 0$ $5x = 10$	2, 8	3	M1 eg for clear attempt to substitute for y or add $x + y = 10$ and $4x - y = 0$ M1 A1 cao for both
23 a		$40 < v \leq 50$	1	B1
b		$\frac{36}{200}$ oe	2	M1 for fraction with denominator of 200 A1 for numerator of 36
24 ai		7^5	3	B1 cao
ii		2^7		B1 cao
iii		3^6		B1 cao
b		4	1	B1 Condone 5^4