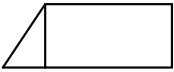



PAPER 5502				
No	Working	Answer	Mark	Notes
1		Diagram	1	B1 cao
		22, 26	1	B1 cao
		46	1	B1 cao
2	$£5.95 + £1.62 + 25p + 2 \times 48p = £8.78$	1.22	3	M1 for 3 of £5.95, £1.62, 25p, 48p seen with intention to add or 170 seen A1 for £8.78 A1 ft from " 8.78"
	$160 \div 12 = 13.(333\dots)$	14	2	M1 for $160 \div 12$ , or 13 or better or $12 \times 13$ or $12 \times 14$ A1 14 cao
	"14" $\times$ £12.20 = £170.80	170.80	2	M1 for "14" $\times$ 12.20 A1 for 170.80 or 158.60 if 13 in (b) NB: 170.8 or 158.6 gets M1 A0
3		1459	1	B1 cao
		9541	1	B1 cao
		$9 + 5 = 14$	1	B1 cao
		0	1	B1 cao
4		1123	1	B1 cao
		1125	1	B1 cao
		43	1	B1 cao
	$67 - "43"$	24	2	M1 for $67 - "43"$ A1 ft from "43"
		80	2	B1 cao
		56 – 58		B1 answer in range 56 to 58 inc
		Completes graph	2	B2 for (Apr , 70) and (May , $60 < p < 65$ ) plotted and joined (B1 for one point plotted)

PAPER 5502				
No	Working	Answer	Mark	Notes
5		4	1	B1 cao
		10	1	B1 cao
		28	2	B2 for 28 (B1 for 29 or $14 \times 2$ )
6		$\frac{3}{4}$	1	B1 accept 0.75, 75%
	$\frac{3}{4} \times 28 = 21$	15.54	3	M1 for $\frac{3}{4} \times 28$ or 21 seen M1 for “21” $\times 74$ or $28 \times 74$ or $7 \times 74$ A1 cao
		44 – 46	2	B1 44 – 46 inc
		5.2 – 5.4		B1 5.2 – 5.4 inc
7		Correct shape	1	B1
		Correct shape	1	B1
8		Hexagon	1	B1
		Right	1	B1 cao
		Drawing	2	B2 for 7 additional hexagons with at least 2 points at which 3 hexagons meet (B1 for one point at which 3 hexagons meet)
9		$\frac{3}{4}$	2	M1 $\frac{80 - 20}{80}$ or $\frac{60}{80}$ or 0.75 (oe) A1 cao Do not accept equivalents
		15	1	B1 cao
		Iron and Cook set	1	B1 for both Accept mixer and fryer
		Microwave	1	B1 cao
		Bar chart	2	B1 one column (mixer): 70, 90 B1 second column (fryer): 70, 85 [SC: B1 columns correct but reversed]

PAPER 5502				
No	Working	Answer	Mark	Notes
10	(a)	Acute	1	B1
	(b)	Reflex	1	B1
	(c)	reason	1	B1 reason eg $120 + 230 = 350 \neq 360$
11	(a)	$\frac{1}{2}$	1	B1 for $\frac{1}{2}$ oe
	(b)	reason	1	B1 for reason e.g could get 30 heads
12	(a)	$7.5 \times 4$	2	M1 for $7.5 \times 4$ or $7\frac{1}{2} \times 4$ A1 cao
	(b)	$\sqrt{42.25}$	2	B2 for 6.5 (B1 for 42.25)
13	(a)	$6x$	1	B1 accept $6 \times x$ , $x6$ oe
	(b)	$x - 4$	1	B1 cao
	(c)	$12(x - 4)$	1	B1 for $12(x - 4)$ or $12x - 48$ or $12 \times x - 48$ oe
	(d)	$18x - 48$	2	M1 for “ $6x$ ” + “ $12(x - 4)$ ” or “ $6x$ ” + “ $12x - 48$ ” oe A1 ft $18x - 48$ , $2(9x - 24)$ , $3(6x - 16)$ , $6(3x - 8)$
14	(a)	90	2	B2 for $90 \pm 2$ (B1 for $9 \pm 0.2$ )
	(b)	317	1	B1 for $317 \pm 4$
15	(a)	Accurate drawing of triangle	2	B1 cao for $38^\circ (\pm 2^\circ)$ B1 cao (indep) for BC drawn 7.3 cm ( $\pm 2$ mm) and completing the triangle.
	(b)	Measure angle A	1	B1 for $63^\circ (\pm 2^\circ)$ or ft their diagram ( $\pm 2^\circ$ )

PAPER 5502				
No	Working	Answer	Mark	Notes
16	(a)	100	3	M1 col 1 $\times$ col 2 (at least 3 shown) M1 (dep) sum of totals A1 cao SC: M1 M1 A0 for 101
	(b)		3	M1 $35.50 \div 1.42$ A1 25 seen B1 ft (dep on M1) £1.99 with conclusion (must have units) <b>OR</b> M1 $26.99 \times 1.42$ A1 38.32 or 38.33... seen B1 ft (dep on M1) \$2.83 or \$2.82 with conclusion (must have units) must be to 2dp
17	(a)	-1, (1), (3), 5, 7, 9	2	B2 cao (B1 for 2 values)
	(b)	Graph	2	B1 ft for plotting points $\pm 1/2$ square B1 cao for line between $x = -2$ and $x = 3$
	(c)(i)	0.4	2	B1 for 0.4 or ft from single straight line with positive gradient
	(ii)	1.2		B1 for 1.2 or ft from single straight line with positive gradient

PAPER 5502				
No	Working	Answer	Mark	Notes
18	(a)	Plots	1	B1 cao
	(b)	description	1	B1 dynamic relationship or “positive” (correlation)
	(c)	line of best fit	1	Line within overlay region, and to the extent of.
	(d)(i)	280 g →	2	B1 ft from single straight line of positive gradient (±1/2 square)
	(ii)	120 pages →		B1 ft from single straight line of positive gradient (±1/2 square)
19		200 150 225 150 10	3	B3 cao (B2 for three correct, or B1 for one correct)
20	(a)		2	B1 B1 for correct sketch – ignore additional internal lines B1 B0 for rectangle or right-angled triangle or correct shape without line NB 3-D sketch gets B0 B0
	(b)		2	B1 B1 for correct plan – ignore internal lines – accept a rotated plan, not reflected B1 B0 for a single rectangle drawn NB 3-D sketch gets B0 B0
21	(a)	163.25 – 35.50 = 127.75 127.75 ÷ 18.25 = 7	3	M1 163.25 – 35.50 (or sight of 127.75) M1 (dep) “127.75” ÷ 18.25 A1 cao SC: M2 for 7 days
	(b)	1.175 × £64 or $\frac{17.5}{100} \times 64$ or £11.20 seen	2	M1 1.175 × 64, 0.175 × 64 oe or 11.20 or 75.2 seen or 6.40, 3.20 and 1.60 seen A1 cao

<b>PAPER 5502</b>				
<b>No</b>	<b>Working</b>	<b>Answer</b>	<b>Mark</b>	<b>Notes</b>
22	(a)	6	1	B1 cao
	(b)	$t^2 - 2t$	1	B1 oe
	(c)	$3(y - 4)$	1	B1 Accept $3 \times (y - 4)$ or $3(y - 4)$
23	(a)	Reason	1	B1 Makes some mention of bias either directly or making reference to an insufficient or biased range of responses
	(b)	Reason	1	B1 (a) an insufficient range of responses (b) No mention of money (c) No time frame in the question (d) Misunderstanding of “A lot” and “Not much”