

Mathematics B (MEI) (Two Tier)

General Certificate of Secondary Education **GCSE J519**

Mark Schemes for the Units

January 2010

J519/MS/10J

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All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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MARK SCHEMES FOR THE UNITS

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B291 (Foundation – Modular) Paper 1

If answers clearly come from totally incorrect working, do not award the marks.

1	(a)	30 000 000	1	
	(b)	(i) 8490 (ii) 8500	1 1	
2	(a)	(i) $\frac{3}{4}$ (ii) 2 rectangles shaded	1 1	
	(b)	Rings round $\frac{2}{8}, \frac{10}{40}$	2	B1 for one correctly ringed + no extras, or two right + one extra
3		chord, sector radius centre circumference	1 1 1 1	
4		9:45 oe	3	B2 for $2\frac{1}{4}$, 2h15m seen or 7.30 + 1h45 + 30m, or better or all correct with one arithmetic error SC2 for 9:10, 9.30 or 10.00 B1 for $1\frac{3}{4}$ or 1h45m seen or 135m SC1 for 1h40, 2h, 2h30 or 9:05, seen or 7.30+3×35 +2×15 oe
5	(a)	(i) (x =) 3 (ii) (y =) 9	1 1	
	(b)	28	2	B1 for 12 or 16 seen
	(c)	-12	1	
6	(a)	Fifty thousand, 50 thousand, 50000	1	
	(b)	4	1	
	(c)	(i) 40 (ii) 48	1 1	

	(d)	$250 \times 60 \times 50$ 750 000 m^3	M1 A1 B1	figs 75
	(e)	$70 \times \frac{8}{5}$ 112	M1 A1	Or list of equivalents as far as 70
7	(a)	Suitable labels indication of numbers	1 1	Must have list of at least 2 types of vehicles tally and/or frequency oe
	(b)	Leading question oe	1	
	(c)	Vary location Vary time	1 1	
8	(a)	$n = \frac{m+3}{5}$ oe	2	M1 for $m + 3 = 5n$ or $\frac{m}{5} = n - \frac{3}{5}$ SC1 for $n = \frac{m-3}{5}$ or $m + 3 \div 5$ or $m + \frac{3}{5}$
	(b)	p^8	1	

SECTION B

9	(a)	4 20  6	1 1 1 1	FT from key where possible
	(b)	mode 8 median 7	B1 B2	If B0 earned for median, B1 for 3 5 6 7 7 8 8 8 14
10	(a)	(i) 24 (ii) 20	1 1	
	(b)	7	1	
11		6 bulbs 10p	2 1	M1 for $10 \div 1.65$ oe
12	(a)	C	1	or 0.5
	(b)	E Suitable explanation.	1 1	or 1
13	(a)	(i) 23.1 (ii) 35.8	1 1	
	(b)	(i) 7921 (ii) 3.9 cao (iii) 8 cao	1 1 1	
14	(a)	11	1	
	(b)	1	1	
	(c)	2	2	M1 for +1 or $\div 4$ soi SC1 for 2.75
15	(a)	- 3, 1	1	
	(b)	Points plotted Line drawn	1ft 1	
	(c)	Correct line	1	

16		Idea of area, soi $25(\pi)$ or 100 or 78 to 79 $56.25(\pi)$ or 225 or 176 to 177 Supporting words or numerical evidence.	M1 A1 A1 A1	M1 A1 A1 $\left(\frac{15}{10}\right)^2 = 2.25 > 2$ A1 So good value
17		105.(1...)	3	M1 for $95^2 + 45^2$ or 11050 M1 for $\sqrt{95^2 \pm 45^2}$

B292 (Foundation – Modular) Paper 2

If answers clearly come from totally incorrect working, do not award the marks.

SECTION A

1		Europe 35 220 293	1 1 1 1 ft	
2	(a) (b) (c)	50 $\frac{1}{4}$ oe 0.75	1 1 1	
3	(a) (b)	Train A 2 hr 02 min 150	1 + 1 2	If Zero, M1 for any correct train time seen M1 for $300 \div 2$
4	(a) (b) (c) (d)	$\frac{3}{4}$ $1\frac{3}{4}$ isw 2000 x 14 28000 27	1 1 M1 A1 2	accept any from 2000/2300 x 10/14/15with matching correct answer M1 for 30×0.9 oe or for '10% is 3'
5	(a) (b) (c) (d)	20 50 1 70	1 1 1 2	M1 for $7 \times (9+1)$ SC1 for ' $7 \times (6 + 1) = 49$ ' seen

<p>6</p>	<p>(a)</p>	<p>$\frac{1}{5}$</p>	<p>3</p>	<p>M2 $\frac{40}{200}$ oe fraction, decimal or percent M1 for any/200, or 40/(x>160)</p>
	<p>(b)</p>	<p>0.6 oe</p>	<p>1</p>	
<p>7</p>	<p>(a)</p>	<p>(3.40) 3.80 4.20 (4.60) 5.00</p>	<p>2</p>	<p>M1 for 2 correct (allow ft) +/- 1 mm</p>
	<p>(b)</p>	<p>Points correctly plotted</p>	<p>2 ft</p>	<p>B1 for 4 points correct. eg 'Can't have 1.5 toppings' or 'Can't have £4 charged'</p>
	<p>(c)</p>	<p>discrete data</p>	<p>1</p>	
<p>8</p>	<p>(a)</p>	<p>diagram 3</p>	<p>1</p>	<p>ft from correct 2 by n diagram ($n \neq 2,3$)</p>
	<p>(b)</p>	<p>1, (2), 3, 4, 5</p>	<p>1 ft</p>	<p>M1 for 3 correct, or for another correct diagram seen or $c = n - 1$ in words</p>
	<p>(c)</p>	<p>'goes up by 1 each time'</p>	<p>2</p>	
	<p>(d)</p>	<p>11</p>	<p>1</p>	
	<p>(e)</p>	<p>$n - 1$ oe</p>	<p>1</p>	
<p>9*</p>	<p>(a)</p>	<p>8.8 and 7.6</p>	<p>1</p>	<p>cao</p>
	<p>(b)</p>	<p>plot points. +/-1mm accuracy</p>	<p>2</p>	<p>Give B1 for 3 or 4 correct</p>
	<p>(c)</p>	<p>(strong) positive (correlation)</p>	<p>1</p>	<p>line through (6.7, 5.4 to 5.8); line must have at least 4 points above (or on) and below (or on) it; line must extend over x - range of points.</p>
	<p>(d)</p>	<p>ruled, single line drawn</p>	<p>1 dep</p>	<p>dep at least 1 mark for (b)</p>
	<p>(e)</p>	<p>(from their graph)</p>	<p>1</p>	<p>dep straight line with positive gradient</p>
<p>10*</p>	<p>(a)</p>	<p>correct arrow</p>	<p>1</p>	<p>accept $x > -2$</p>
	<p>(b)</p>	<p>$x < 6$ isw</p>	<p>2</p>	<p>M1 for $2x < 12$</p>
<p>11*</p>		<p>$x = 5$</p>	<p>3</p>	<p>M1 for $5x + 3 = 4x + 8$ then M1 for $5x -$ their '4x' or $8 -$ their '3' on one side of equation</p>

SECTION B

12	(a) (b) (c)	point marked freehand parallel freehand perpendicular	1 1 1	+/- 2 mm												
13	(a) (b) (c)	Parallelogram Rectangle Trapezium	1 1 1													
14	(a) (b) (c) (d) (e) (f)	medium could be medium or large <table border="1" data-bbox="336 539 746 680"> <tr> <td>sm</td> <td>11</td> <td>2</td> </tr> <tr> <td>med</td> <td>1111 11</td> <td>7</td> </tr> <tr> <td>lg</td> <td>1111</td> <td>5</td> </tr> <tr> <td>v lg</td> <td>11</td> <td>2</td> </tr> </table> Add frequency column (to see if its 16) correct labelled axes 4 equal width bars (their) correct heights Medium	sm	11	2	med	1111 11	7	lg	1111	5	v lg	11	2	1 1 2 1 1 1 1 1 1	M1 for just 1 column, or for 1 error accept reversed axes ignore gaps or their absence accept freehand accept '53 - 63'
sm	11	2														
med	1111 11	7														
lg	1111	5														
v lg	11	2														
15	(a) (b)	6800 £2.53	3 2	M1 for 10 x 8 x 5 (=400) M1 dep for x 17 if at least one of first M1's products done M1 for 1012 ÷ (their) 400 SC1 for 1012 ÷ (40 or 6800)												
16		2800	3	M1 for 2500 x 3 x 4 M1dep for ÷ 100 (= 300) if x4 seen ALT M2 for 300 www M1 for 'their 4% of 2500' x 3 Or for 12% seen												

17	(a)	small 4 lots cost £7.92 soi	1 1 indep	ALT: $7.95 \div 4 = 1.987..$ or both of ' $100 \div 1.98 = 50.50..$ '/' $400 \div 7.95 = 50.31$ '
	(b)	10.85 (miles/litre) soi 10.41 (miles/litre) soi Car A.	M2 A1	
18*	(a)	48°	1	condone 'T' and 'S' condone Z angles
	(b)	<i>ba....</i> alternate angles ... (angles on a) straight line	1 1 1	
19*	(a)	Rotation through 90° anti-clockwise about origin	1 1 1	M1 for any translation correct in x or y direction M1 for any reflection in $x = k$
	(b)	correct translation	2	
	(c)	correct reflection	2	
20	(a)	1600	2	M1 for $2400 \div 1.5$
	(b)	1.25	3	M1 for 3000 (g) seen www M1 for (their) $3000 \div 2400$
21*	(a)	-3 ... 5	1	to +/- 1 mm allow 4.1 to 4.3
	(b)	5+ points plotted correctly smooth parabolic curve	1ft 1	
	(c)	through points $x = 4.2$	1	
22	(a)	60 600 000	1	
	(b)	5400	1	

B293 (Higher – Modular) Paper 3


If answers clearly come from totally incorrect working, do not award the marks.

SECTION A

1	(a)	(i) $\frac{5}{12}$	2	M1 for sight of LCM										
		(ii) $\frac{1}{6}$	2	M1 for sight of 4 in denominator and not in numerator (soi by $\frac{2}{12}$)										
	(b)	$\approx \frac{20 \times 30}{300}$ ≈ 2	M1 A1	For sight of at least two numbers rounded correctly										
2	(a)	Suitable labels indication of numbers	1 1	Must have list of at least 2 types of vehicles tally and/or frequency oe										
	(b)	Leading question oe	1											
	(c)	Vary location vary time	1 1											
3	(a)	<table style="border-collapse: collapse; margin-left: 20px;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td>9 9</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td>0 1 2 3 3</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">5</td><td>6 7 7 7 8 9</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">3</td><td>1 1 3 4 7</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">4</td><td>1</td></tr> </table> <p style="margin-left: 20px;">Key 1 9 means 19</p>	1	9 9	2	0 1 2 3 3	5	6 7 7 7 8 9	3	1 1 3 4 7	4	1	3	B1 for correct branches B1 for leaves in correct order B1 Correct key
1	9 9													
2	0 1 2 3 3													
5	6 7 7 7 8 9													
3	1 1 3 4 7													
4	1													
	(b)	27	1											
4	(a)	$\Rightarrow n = \frac{m+3}{5}$ oe	2	M1 for $m+3=5n$ or $\frac{m}{5} = n - \frac{3}{5}$ SC1 for $n = \frac{m-3}{5}$ or $m+3 \div 5$ or $m + \frac{3}{5}$										
	(b)	p^8	1											
	(c)	$(x =) \frac{17}{2}$ or $8\frac{1}{2}$ or 8.5	3	M1 for attempt to clear fractions (eg $2x - 5 = 3 \times 4$) M1 for collecting terms										

5		3.6 www	3	M1 $\frac{QR}{6} = \frac{4.8}{8} = 0.6$ A1 $QR = 0.6 \times 6$ Or: M1 sf $\frac{6}{8}$: A1 $4.8 \times \frac{6}{8}$
6	(a)	$(n - 1) + n + (n + 1) = 3n$ So is always a multiple of 3	B1 B1	
	(b)	(i) $(n - 1)^2 + n^2 + (n + 1)^2$ $= n^2 - 2n + 1 + n^2 + n^2 + 2n + 1$ $= 3n^2 + 2$	M1 A1 A1	Multiply at least one bracket At least one bracket correctly multiplied
		(ii) $3n^2$ is a multiple of 3. So $3n^2 + 2$ is always 2 more than a multiple . So no.	M1 A1	MOA0 if no explanation Or: B1 one correct counter-example B1 Conclusion
7	(a)	$(x + 2)^2 - 11$	2	B1 $(x + 2)^2$ seen
	(b)	(i) - 11 (ii) $x = -2 \pm \sqrt{11}$	1 2	M1 $(x + 2)^2 = 11$ ft Or: Substitute in correct formula

SECTION B

8	(a)	210	1	
	(b)	50	2	M1 for dividing their ((a) + 40) by 5
9		105.(1...)	3	M1 for $95^2 + 45^2$ or 11050 M1 for $\sqrt{95^2 \pm 45^2}$
10		Idea of area, soi 25(π) or 100 or 78 to 79 56.25(π) or 225 or 176 to 177 Supporting words or numerical evidence.	M1 A1 A1 A1	Alt: M1 A1 A1 $\left(\frac{15}{10}\right)^2 = 2.25 > 2$ A1 So good value
11		1805 – 1806 or 1810	3	M1 for finding a sum of xf column M1 for dividing by their 18 (dep on 1 st M mark)
12		4.6	3	M1 for difference (= £6.90) M1 for correct fraction ft Or: M1 for $\frac{157.05}{150.15}$ (=1.046) M1 for subtracting 1 and $\times 100$
13		200	3	B1 for sight of 0.1 oe B1 for $0.1 = 20$ fish oe
14	(a)	88 and 112	3	M1 divide by 25 M1 multiply by 11 or 14 Or: B2 for one correct
	(b)	108 and 135	3	M1 divide by 27 M1 multiply by 12 or 15 Or: B2 for one correct
15	(a)	3, -1 3	2	B1 one error
	(b)	Correct curve 	B1 B1	Points plotted ft Smooth cubic curve

	(c)	- 1.9, 0.3, 1.5	2	B1 for 2 correct
16	(a)	14.59	2	M1 sub in correct formula
	(b)	(i) 58.4 (ii) 151 - 152	1 2	Allow 4 × their (a) ft M1 for 2.6 × their (i) soi

B294 (Higher – Modular) Paper 4

SECTION A

1	(a)	Triangle ACD with arcs Triangle ABC with arcs	2 ft 2	± 2 mm throughout B1 for triangle ACD without arcs ft B1 for triangle ABC without arcs
	(b)	Angle bisector of $\angle D$ with arcs	ft 2	$\pm 2^\circ$ ft from part (a) B1 for angle bisector no arcs
2	(a)	8.8 and 7.6	1	cao
	(b)	plot points. +/-1mm accuracy	2	Give B1 for 3, 4 correct
	(c)	(strong) positive (correlation)	1	
	(d)	ruled, single line drawn	1dep	line through (6.7, 5.4 to 5.8); line must have at least 4 points above (or on) and below (or on) it; line must extend over x - range of points. dep at least 1 mark for (b)
	(e)	(from their graph)	1	dep straight line with positive gradient
3	(a)	correct arrow	1	accept $x > -2$
	(b)	$x < 6$	2	M1 for $2x < 12$
4	(a)	30	2	B1 for $2 \times 3 \times 5$ or SC1 for 6 or 10 or 15
	(b)	2700	2	B1 for $2^2 \times 3^3 \times 5^2$ or SC1 for 2700k
5		$x = 5$	3	M1 for $5x + 3 = 4x + 8$ then M1 for $5x -$ their '4x' or $8 -$ their '3' on one side of equation
6	(a)	1.5×10^4	2	M1 for $4.5 \times 10^9 \div 3 \times 10^5$ soi by figs 1.5
	(b)	4.35×10^9	2	B1 for figs 4.35
7	(a)	(i) R – R R –	2	B1 for 4 correct
		(ii) (prime) factors other than 2 and 5	1	accept alternative eg 3 and 7 are factors
	(b)	$\frac{72}{99}$ or $\frac{24}{33}$ or $\frac{8}{11}$	2	M1 $100r = 72.7272.....$ oe

8	(a)	Women older oe Women greater spread oe	1 1	
	(b)	18 www	3	M1 for 20×1.4 to 1.6 M1 for -20×0.6
	(c)	26 www	2	B1 for 25 – 27
9	(a)	$\frac{4}{7}a + \frac{3}{7}b$	3	M2 for $a + \frac{3}{7}(b - a)$ or $b + \frac{4}{7}(a - b)$ M1 $\frac{3}{7}$ or $\frac{4}{7}$ seen
	(b)	$a + \frac{n}{n+1}(b - a)$ oe	3	M1 for $\frac{n}{n+1}$ or $\frac{1}{n+1}$ + M1 for $a + (\text{their } \frac{n}{n+1})(b - a)$ or $b + (\text{their } \frac{1}{n+1})(a - b)$
10	(a)	x^3 www	2	B1 for $x^{2.5}$ oe or $\sqrt{x^6}$ or $(\sqrt{x})^6$ seen
	(b)	$y(cx + d) = ax + b$ $cxy - ax = b - dy$ $x(cy - a) = b - dy$ $x = \frac{b - dy}{cy - a}$ oe	1 M1 M1 1	mark on intention attempt to multiply brackets and isolate x terms factorising isolated x terms

SECTION B

11	(a)	Rotation through 90° anti-clockwise about origin	1 1 1	
	(b)	correct translation	2	M1 for any translation correct in x or y direction
	(c)	correct reflection	2	M1 for any reflection in $x = k$
	(d)	$\begin{pmatrix} k \\ 5 \end{pmatrix}$ $x = \frac{1}{2}k + 3$	M1 A1	SC1 for $\begin{pmatrix} -4 \\ k \end{pmatrix}$ following reflection in $y = -1$ in (c)
12	(a)	b, a alternate angles angles on a straight line	1 1 1	condone 'T' and 'S' condone Z angles
	(b)	(i) $2p$	1	
	(b)	(ii) $180 - \text{their (i) oe}$	ft 1	For ft their (i) must be $f(p)$
13	(a)	34 www or 34.1	3	M1 for $\frac{700 - 522}{522}$ or $700 \div 522$ A1 for figs 340.9 – 341 or 1.34 – 1.341 Or SC1 for 25.4 (%)
	(b)	360	3	M2 for $522 \div 1.45$ oe M1 for 145% or 1.45 seen
14	(a)	n^2 oe	1	
	(b)	$2n + 1$ oe	2	B1 for $2n + k$
	(c)	$n^2 + 2n + 1$ oe	1 ft	ft their (a) + their (b) provided both $f(n)$.
15	(a)	$-3 \dots 5$	1	
	(b)	5+ points plotted correctly smooth parabolic curve through points	1 1	to +/- 1 mm
	(c)	Correct ruled line $y = x - 2$ Strict ft their points of intersection.	2 2 ft	B1 for table of values or at least 2 correct plots strict ft $\pm \frac{1}{2}$ sm sq, B1 for each pair of coords. No ft from horizontal or vertical lines.
16	(a)	$\frac{35}{36}$	3	M1 for $1/6 \times 1/6$ or $1/36$ + M1 for $1 - \text{their } (1/6 \times 1/6)$

	(b)	0.025 www cao	3	M2 for $[\text{their } (35/36)]^4 \times \text{their } (1/36)$ M1 for $[\text{their } (35/36)]^n \times \text{their } (1/36)$
17		87.4 or 87 following correct working	4	M2 for $x = (150 \sin 35) / \sin 100$ oe or M1 for $x / \sin 35 = 150 / \sin 100$ oe A1 for 87.36.....
18	(a)	circle centre (0, 0) radius $\sqrt{40}$ oe or 6.3.....	M1 A1 A1	soi by coords at axes
	(b)	$x^2 + (x - 4)^2 = 40$ $x^2 - 8x + 16$ $2x^2 - 8x - 24 (= 0)$ or $x^2 - 4x - 12 (= 0)$ $(x - 6)(x + 2)$ oe $x = 6$ or -2 $(6, 2)$ and $(-2, -6)$	M1 B1 A1 M1 A1 1 ft	attempt to factorise their quadratic (so 2 terms correct) or subst in formula ft their two x values subst in $y = x - 4$

List of Abbreviations

The following abbreviations are commonly found in GCSE Mathematics mark schemes.

- Where you see **cao** in the mark scheme it means **correct answer only**.
- Where you see **ft** in the mark scheme it means **follow through**.
- Where you see **oe** in the mark scheme it means **or equivalent**.
- Where you see **rot** in the mark scheme it means **rounded or truncated**.
- Where you see **seen** in the mark scheme it means that the mark is earned if that number or expression is seen anywhere in the answer space, including on the answer line, even if it is not in the method leading to the final answer.
- Where you see **soi** in the mark scheme it means **seen or implied**.
- Where you see **www** in the mark scheme it means **without wrong working**.
- Where you see **dep** in the mark scheme it means **dependent on**.

Grade Thresholds

General Certificate of Secondary Education
 Mathematics B (MEI) (Two Tier) (J519)
 January 2010 Examination Series

Unit Threshold Marks

Unit		Maximum Mark	A*	A	B	C	D	E	F	G	U
B291	Raw mark	72	N/A	N/A	N/A	51	43	35	28	21	0
B292	Raw mark	100	N/A	N/A	N/A	67	55	43	31	19	0
B293	Raw mark	72	59	49	39	29	19	14	N/A	N/A	0
B294	Raw mark	100	71	58	45	32	21	15	N/A	N/A	0

Specification Aggregation Results

Overall threshold marks in UMS (ie after conversion of raw marks to uniform marks)

	Maximum Mark	A*	A	B	C	D	E	F	G	U
Foundation Tier	279	N/A	N/A	N/A	240	200	160	120	80	0

The total entry for the Foundation Tier was 394.

	Maximum Mark	A*	A	B	C	D	E	F	G	U
Higher Tier	400	360	320	280	240	200	160	N/A	N/A	0

The total entry for the Higher Tier was 45.

The cumulative percentage of candidates awarded each grade was as follows:

	A*	A	B	C	D	E	F	G	U	Total No. of Cands
Percentage in each grade	2.7	2.5	1.4	41.5	25.5	11.9	5.2	6.2	3.2	439
Cumulative percentage	2.7	5.2	6.6	48.1	73.6	85.4	90.7	96.8	100	439

439 candidates were entered for aggregation this series

For a description of how UMS marks are calculated see:
<http://www.ocr.org.uk/learners/ums/index.html>

Statistics are correct at the time of publication.

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