

Practice Tests Set 24 – Paper 1F mark scheme

Qn	Working	Answer	Mark	Notes
1		84, 105, 171, 233, 490	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
2		8	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
3		-1	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
4		6	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
5		$3\frac{4}{9}$	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
6		Acute	1	B1
				Total 1 mark

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Qn	Working	Answer	Mark	Notes
7		<i>DL, DP, DR, HL, HP, HR, JL, JP, JR, SL, SP, SR</i>	2	B2 for all 12 combinations with no extras or repeats If not B2 then B1 for at least 4 correct combinations (ignoring extras and repeats)
				Total 2 marks

Qn	Working	Answer	Mark	Notes
8 (a)		15	1	B1
(b)		18	1	B1
(c)		16	1	B1
(d)		2	1	B1
(e)		8 and 18	1	B1
				Total 5 marks

Qn	Working	Answer	Mark	Notes
9		$6c + 2d$	2	B2 for $6c + 2d$ or $2d + 6c$ (B1 for $6c$ or $2d$)
				Total 2 marks

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Qn	Working / Answer					Mark	Notes
10 (a)		apple pie	fruit	ice cream	Total	3	B3 Fully correct table If not B3, then B2 for 4 or 5 correct B1 for 2 or 3 correct
	Year 5	22	6	8	36		
	Year 6	34	8	2	44		
	Total	56	14	10	80		
(b)	$\frac{22}{80}$					2	M1
					$\frac{11}{40}$		A1
							Total 5 marks

Qn	Working	Answer	Mark	Notes
11 (a)		(1, 0)	1	B1
(b)		Cross marked at (3, -2)	1	B1
(c)		(-3, -1)	2	B2 for (-3, -1) If not B2 then award B1 for (-3, a) where $a \neq -1$ or (b, -1) where $b \neq -3$ or (-1, -3)
(d)		$y = 3$	1	B1
				Total 5 marks

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Qn	Working	Answer	Mark	Notes
12		Octagon	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
13		360	1	B1
				Total 1 mark

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Qn	Working	Answer	Mark	Notes				
14		240	1	B1 Accept 235 - 245				
		58	1	B1 Accept 58 -59				
	<table border="1"> <tr> <td>e.g. 950 ÷ 6 or 950 ÷ $\frac{240}{40}$ oe or 50 × 3 + 8</td> <td>e.g. 170 × 6 or 170 × $\frac{240}{40}$ oe or 300 × 2 + 420</td> </tr> <tr> <td colspan="2">(1 dollar = 6 krone)</td> </tr> </table>	e.g. 950 ÷ 6 or 950 ÷ $\frac{240}{40}$ oe or 50 × 3 + 8	e.g. 170 × 6 or 170 × $\frac{240}{40}$ oe or 300 × 2 + 420	(1 dollar = 6 krone)			2	M1 for a correct method that gives the exchange for 950 Danish krone to dollars or 170 dollars to Danish krone
e.g. 950 ÷ 6 or 950 ÷ $\frac{240}{40}$ oe or 50 × 3 + 8	e.g. 170 × 6 or 170 × $\frac{240}{40}$ oe or 300 × 2 + 420							
(1 dollar = 6 krone)								
	<i>Working required</i>	<p>All figures accurate eg 950 Danish krone = 150 - 165 dollars (or clearly showing 170 is enough)</p> <p>or</p> <p>170 dollars = 1000 - 1040 Danish krone (or clearly showing that 950 is less than 170 dollars) oe</p>		A1				
				Total 4 marks				

Qn	Working	Answer	Mark	Notes
15 (a)		w^9	1	B1
(b)		$10m^7 p^3$	2	B2 (B1 for 2 terms correct as part of a product)
				Total 3 marks

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Qn	Working	Answer	Mark	Notes
16 (a)		$10x - x^2$	1	B1 oe eg $-x^2 + 10x$
(b)		$3(2y + 9)$	1	B1
				Total 2 marks

Qn	Working	Answer	Mark	Notes
17	0.28 or $\frac{22}{25}$ or $\frac{7}{25} + 0.88$ oe		2	M1
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	0.58		A1 oe eg $\frac{29}{50}$
				Total 2 marks

Qn	Working	Answer	Mark	Notes
18	$\pm(70 - 8 \times 5)$ or -30 or $70 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5$ oe		2	M1 Could be done in 2 parts
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	30		A1
				Total 2 marks

Qn	Working	Answer	Mark	Notes
19 (a)		$9y$	1	B1
(b)		$12p^2$	1	B1
				Total 2 marks

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Qn	Working	Answer	Mark	Notes
20		0.405, 0.45, 0.5, 0.504, 0.54	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
21 (a)		Prism	1	B1 Accept pentagon(al) prism
(b) (i)		7	1	B1
(ii)		10	1	B1
				Total 3 marks

Qn	Working	Answer	Mark	Notes
22		Chord drawn	1	B1
				Total 1 mark

Qn	Working	Answer	Mark	Notes
23 (a)		Unlikely	1	B1 Tick at
(b)		Evens	1	B1 Tick at
(c)		Impossible	1	B1 Tick at
				Total 3 marks

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Qn	Working	Answer	Mark	Notes
24	eg $7g - 2g + 3 = -5$ or $5g + 3 = -5$ or $7g = 2g - 5 - 3$ or $7g = 2g - 8$		3	M1 for correctly collecting the terms in g on one side or the numbers on one side
	eg $7g - 2g = -5 - 3$ or $5g = -8$			M1 for a correct rearrangement with terms in g on one side and numbers on the other. Award of this mark implies the first M1
	<i>Working required</i>	$-\frac{8}{5}$		A1 (dep on M1) oe eg $-1\frac{3}{5}$ or -1.6
				Total 3 marks

Qn	Working	Answer	Mark	Notes
25	eg $\frac{14}{3}$ and $\frac{11}{6}$		3	M1 for both mixed numbers expressed as improper fractions
	eg $\frac{14}{3} \times \frac{6}{11}$ or $\frac{28}{6} \div \frac{11}{6}$ or $\frac{28n}{6n} \div \frac{11n}{6n}$			M1 seeing this stage gains M2
	eg $\frac{14}{3} \times \frac{6}{11} = \frac{84}{33} = \frac{28}{11} = 2\frac{6}{11}$ or $\frac{14}{3} \times \frac{6}{11} = \frac{84}{33} = 2\frac{18}{33} = 2\frac{6}{11}$ or $\frac{14}{3^1} \times \frac{6^2}{11} = \frac{28}{11} = 2\frac{6}{11}$ or $\frac{14}{3} \div \frac{11}{6} = \frac{28}{6} \div \frac{11}{6} = \frac{28}{11} = 2\frac{6}{11}$ or correct working to $\frac{28}{11}$ and writing $2\frac{6}{11} = \frac{28}{11}$	Shown		A1 dep on M2 for conclusion to $2\frac{6}{11}$ from correct working – either sight of result of multiplication eg $\frac{84}{33}$ must be seen or correct cancelling to $\frac{28}{11}$ or complete method using division and common denominators
	<i>Working required</i>			Total 3 marks

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Qn	Working	Answer	Mark	Notes
26		(x =) 3	3	B1
		(y =) 6		B1
		(z =) 10		B1
				Total 3 marks

Qn	Working	Answer	Mark	Notes
27 (a)		Correct Venn diagram	3	B3 for all sections completed correctly If not B3 then award B2 for 3 correct sections B1 for 1 or 2 correct sections
(b)(i)		$\frac{13}{30}$	1	B1 oe, ft their Venn diagram
(ii)		$\frac{6}{30}$	1	B1 oe, ft their Venn diagram
				Total 5 marks

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Qn	Working	Answer	Mark	Notes
28 (a)		Triangle drawn at (-1, -3) (-1, -4) (-3, -3)	2	B2 for a correct triangle with correct orientation and position If not B2 then award B1 for a correct triangle drawn with correct orientation in wrong position or triangle drawn with 2 out of 3 correct vertices
(b)		Triangle drawn at (-4, 4) (-4, 5) (-2, 4)	1	B1 cao
				Total 3 marks

Qn	Working	Answer	Mark	Notes
29 (a)		0.000 0932	1	B1
(b)		2.4×10^5	2	B2 If not B2, then B1 for 240 000 or 24×10^4 oe or 2.4×10^a $a \neq 5$
(c)		1.8×10^{121}	2	B2 If not B2, then B1 for 18×10^{120} or 1.8×10^b $b \neq 121$
				Total 5 marks

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Qn	Working	Answer	Mark	Notes																
30	<table border="1"> <tr> <td>x</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>y</td> <td>10</td> <td>7.5</td> <td>5</td> <td>2.5</td> <td>0</td> <td>-2.5</td> <td>-5</td> </tr> </table>	x	-2	-1	0	1	2	3	4	y	10	7.5	5	2.5	0	-2.5	-5	Correct line	3	<p>B3 for a correct line between $x = -2$ and $x = 4$</p> <p>If not B3 then award B2 for a line segment through at least 3 of $(-2, 10), (-1, 7.5), (0, 5), (1, 2.5), (2, 0), (3, -2.5), (4, -5)$</p> <p>or all points plotted correctly</p> <p>If not B2 then award B1 for at least 2 correct points plotted or stated (may be seen in a table) or for a line drawn with a negative gradient through $(0, 5)$ or for a line with a gradient of -2.5</p>
x	-2	-1	0	1	2	3	4													
y	10	7.5	5	2.5	0	-2.5	-5													
				Total 3 marks																

Qn	Working	Answer	Mark	Notes
31 (a)	eg $(y \pm 6)(y \pm 3)$ or $y(y + 3) - 6(y + 3)$ or $y(y - 6) + 3(y - 6)$		2	M1 or $(y + a)(y + b)$ where $ab = -18$ or $a + b = -3$ or factorisation which expands to give 2 out of 3 correct terms
	[allow use of x rather than y]	$(y - 6)(y + 3)$		A1
(b)		6, -3	1	B1 ft must come from their factors in (a)
				Total 3 marks

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Qn	Working	Answer	Mark	Notes
32	eg $h - 4 = \frac{m}{2}$ or $2h = m + 8$		2	M1 for a correct first step
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$m = 2(h - 4)$		A1 oe eg $m = 2h - 8$ SC award M1 for $m = 2h - 4$ or $m = h - 8$
				Total 2 marks

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Qn	Skill tested	Mean score	Max score	Mean %	Edexcel averages: scores of candidates who achieved grade:						
					ALL	5	4	3	2	1	U
1	Integers	0.96	1	96	0.96	0.99	1.00	0.92	0.92	0.86	1.00
2	Decimals	0.92	1	92	0.92	0.95	0.94	0.97	0.82	0.82	0.40
3	Linear equations	0.92	1	92	0.92	0.99	0.99	0.95	0.79	0.64	0.20
4	Linear equations	0.86	1	86	0.86	0.96	0.99	0.81	0.69	0.59	0.00
5	Fractions	0.71	1	71	0.71	0.94	0.87	0.64	0.36	0.05	0.20
6	Angles, lines and triangles	0.78	1	78	0.78	0.91	0.86	0.78	0.58	0.33	0.60
7	Probability	1.74	2	87	1.74	1.94	1.84	1.86	1.50	0.81	0.40
8	Integers	4.18	5	84	4.18	4.82	4.48	4.10	3.16	2.63	1.80
9	Algebraic manipulation	1.60	2	80	1.60	1.92	1.74	1.55	1.21	0.86	0.20
10	Fractions	4.07	5	81	4.07	4.56	4.24	4.19	3.56	2.50	1.00
11	Graphs	3.68	5	74	3.68	4.49	4.13	3.12	3.04	1.81	0.60
12	Polygons	0.77	1	77	0.77	0.94	0.82	0.79	0.55	0.29	0.00
13	Mensuration of 2D shapes	0.74	1	74	0.74	0.92	0.80	0.65	0.45	0.57	0.40
14	Graphs	2.82	4	71	2.82	3.68	3.01	2.55	1.92	1.18	0.40
15	Algebraic manipulation	1.95	3	65	1.95	2.73	2.25	1.68	1.03	0.19	0.20
16	Algebraic manipulation	1.26	2	63	1.26	1.83	1.50	0.96	0.60	0.10	0.00
17	Decimals	1.36	2	68	1.36	1.68	1.45	1.23	1.21	0.55	0.20
18	3D shapes and volume	1.26	2	63	1.26	1.64	1.38	1.09	0.87	0.55	0.00
19	Algebraic manipulation	1.25	2	63	1.25	1.59	1.36	1.16	0.82	0.59	0.40
20	Decimals	0.61	1	61	0.61	0.80	0.68	0.50	0.41	0.27	0.20
21	3D shapes	1.83	3	61	1.83	2.29	2.00	1.63	1.41	0.86	0.40
22	Circle properties	0.65	1	65	0.65	0.84	0.65	0.52	0.55	0.52	0.00
23	Probability	1.79	3	60	1.79	2.26	1.93	1.63	1.31	0.82	0.60
24	Linear equations	1.64	3	55	1.64	2.67	1.89	1.11	0.48	0.05	0.00
25	Fractions	1.50	3	50	1.50	2.42	1.83	1.03	0.22	0.10	0.00
26	Statistical measures	1.68	3	56	1.68	2.54	1.80	1.34	0.69	0.41	0.60
27	Probability	2.76	5	55	2.76	3.60	2.91	2.44	1.93	1.24	0.80
28	Transformation geometry	1.35	3	45	1.35	2.12	1.67	0.79	0.45	0.05	0.00
29	Standard form	2.20	5	44	2.20	3.47	2.23	1.65	0.95	0.55	0.40
30	Graphs	1.15	3	38	1.15	2.35	1.12	0.40	0.15	0.10	0.00
31	Quadratic equations	0.97	3	32	0.97	2.09	0.77	0.37	0.18	0.05	0.00
32	Expressions and formulae	0.62	2	31	0.62	1.20	0.60	0.29	0.12	0.00	0.00
		50.58	80	63	50.58	67.13	54.73	43.70	32.93	20.94	11.00

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Suggested grade boundaries

Grade	5	4	3	2	1
Mark	61	49	38	27	16