

Practice Test 1F (Set 11) – Foundation tier mark scheme

Question	Working	Answer	Mark	Notes
<b>1</b> (i)		129	1	B1
		80	1	B1
				<b>Total 2 marks</b>
<b>2</b>		Radius drawn	1	B1 Intention clear – do not accept diameter
				<b>Total 1 mark</b>
<b>3</b> (b)		75	1	B1
				<b>Total 1 mark</b>
<b>4</b> (a)		47	1	B1
	(b)	$(82 + 9) \div 7$ <b>or</b> $82 + 9 (= 91)$	2	M1 for + 9 <b>or</b> $\div 7$
		13		A1
				<b>Total 3 marks</b>

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<b>5</b>	(a)		24	1	B1	
	(b)	$26 - 16 (= 10)$	10	2	M1 A1	
	(c)		One and half naan breads drawn	1	B1	
	(d)	$24 + 20 + 16 + 26 + 12 (= 98)$ or $12 \times 8 + 2 (= 98)$	No and 98 seen	2	M1 A1	Must see “No” or “Not correct”, “Wrong” etc.
						<b>Total 6 marks</b>

<b>6</b>	(i)		2457	1	B1	
	(ii)		$\begin{array}{r} \text{---} 4 \text{ or} \\ \text{---} 2 \end{array}$	1	B1	4 cards arranged with the 4 or 2 at the end
						<b>Total 2 marks</b>

<b>7</b>	(a)	$\frac{72}{100}, \frac{36}{50}$		2	M1	Or other fraction equivalent to $\frac{18}{25}$
			$\frac{18}{25}$		A1	
						<b>Total 2 marks</b>

<b>8</b>	(a)		(2, 3)	1	B1	
	(b)		$D$	1	B1	
	(c)	$(-2 + 4) \div 2$ or $(3 + 1) \div 2$	(1, 2)	2	M1 A1	
						<b>Total 4 marks</b>

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<b>9</b>	(i)		81	1	B1	
	(ii)		10	1	B1	
	(v)		23	1	B1	
						<b>Total 3 marks</b>

<b>10</b>	(a)		14	1	B1	Allow -14
	(b)		18	1	B1	Allow -18
	(c)		-12	1	B1	
						<b>Total 3 marks</b>

<b>11</b>	(a)		Marked at 0	1	B1	
	(b)		Marked at 0.5	1	B1	
						<b>Total 2 marks</b>

<b>12</b>			230	1	B1	
						<b>Total 1 mark</b>

<b>13</b>			$8e + 3g$	2	B2	B1 for $8e$ or $3g$ seen
						<b>Total 1 mark</b>

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<b>14</b>	(a)			2	M1 Any rectangle
		e.g. Rectangle $1 \times 6$ , $2 \times 5$ , $3 \times 4$ , $3.5 \times 3.5$	Rectangle with perimeter 14 cm		A1
	(b)			2	M1 Any right-angled triangle or any triangle with area $12 \text{ cm}^2$
			Right-angled triangle with area $12 \text{ cm}^2$		A1 e.g. B 4 cm & H 6 cm, B 3 cm & H 8 cm
<b>Total 4 marks</b>					

<b>15</b>		$4 \times 2.40 + 1.20 + 5.75 (= 16.55)$		3	M1 or subtracting 2 of $4 \times 2.40$ , 1.20, 5.75 from 20 or $20 - 5.75 (= 14.25)$ and $4 \times 2.40 + 1.20 (= 10.8(0))$
		$20 - (4 \times 2.40 + 1.20 + 5.75) (= 3.45)$			M1 or “14.25” – “10.8(0)” (= 3.45)
			1.15		A1
<b>Total 3 marks</b>					

<b>16</b>	(a)		Obtuse	1	B1
	(b)		Octagon	1	B1
<b>Total 2 marks</b>					

<b>17</b>			$w^2 + 3w$	1	B1
<b>Total 1 mark</b>					

<b>18</b>			$w^{12}$	1	B1
<b>Total 1 mark</b>					

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19		$4a$	1	B1	
					<b>Total 1 mark</b>

20		$3f = 11 + 5$ or $3f = 16$		2	M1 A1	A correct rearrangement of numbers on one side accept $5\frac{1}{3}$ or 5.3 with recurring symbol or 5.33 (at least 2 3's) NB. 16/3 in body of script then 5.3 on ans line = M1 A1 5.3 on ans line with no working = M1 A0
						<b>Total 2 marks</b>

21		$t^6$	1	B1	
					<b>Total 1 mark</b>

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<b>22</b>	$(-1, -5)(0, -3)(1, -1)(2, 1)(3, 3)(4, 5)(5, 7)$	Correct line between $x = -1$ and $x = 5$	3	<p>B3 For a correct line between <math>x = -1</math> and <math>x = 5</math></p> <p>B2 for a correct line through at least 3 of <math>(-1, -5)(0, -3)(1, -1)(2, 1)(3, 3)(4, 5)(5, 7)</math> <b>OR</b> for all of <math>(-1, -5)(0, -3)(1, -1)(2, 1)(3, 3)(4, 5)(5, 7)</math> plotted, not joined.</p> <p>B1 For at least 2 correct points stated (may be in a table) <b>OR</b> For a line drawn with a positive gradient through <math>(0, -3)</math> <b>OR</b> for a line with gradient of 2</p>
				<b>Total 3 marks</b>

<b>23</b>		tangent	1	B1
				<b>Total 1 mark</b>

<b>24</b>		$5(y + 3)$	1	B1
				<b>Total 1 mark</b>

<b>25</b>		$T = 2p + 3c$	3	<p>B3 [award B2 if <math>T = 2p + 3c</math> is incorrectly simplified] (condone <math>T = 2 \times p + 3 \times c</math>)</p> <p>(B2) for <math>T = 2p + kc</math> <b>or</b> <math>T = kp + 3c</math> (<math>k</math> may be zero) <b>or</b> <math>2p + 3c</math></p> <p>(B1) for <math>2p</math> <b>or</b> <math>3c</math> <b>or</b> <math>T =</math> a linear expression in <math>p</math> and <math>c</math> e.g. <math>T = p + c</math></p>
				<b>Total 3 marks</b>

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26		$7y - 9$	2	B2 oe e.g. $y \times 7 - 9$ (B1) for $7y$ <b>or</b> $y - 9$ <b>or</b> $y = 7y - 9$
				<b>Total 2 marks</b>

27		$5(-3)^2 + 20$	65	2	M1 A1	Ans of $-25 =$ M1 A0 if substitution seen
						<b>Total 2 marks</b>

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28		$\frac{17}{3(-)11} \text{ oe or } 5\frac{8}{12(-)2}^9$ $\frac{68}{12} - \frac{33}{12} \text{ or } 4\frac{20}{12} - 2\frac{9}{12}$		3	M1	Sight of $\frac{17}{3}$ and $\frac{11}{4}$ or $5\frac{8}{12}$ and $2\frac{9}{12}$  $\frac{68n}{12n} - \frac{33n}{12n}$
					M1	
		$\frac{35}{12} = 2\frac{11}{12}$ <p>Alt:</p> $3 (+) \left( \frac{2}{3} - \frac{3}{4} \right)$			A1	
		$3 (+) \left( \frac{8}{12} - \frac{9}{12} \right)$ $3 - \frac{1}{12} = 2\frac{11}{12}$ <p>Alt:</p> $4\frac{5}{3} - 2\frac{3}{4}$ $2 (+) \left( \frac{5}{3} - \frac{3}{4} \right)$ $2 (+) \left( \frac{20}{12} - \frac{9}{12} \right)$ $= 2\frac{11}{12}$			M1	Dep on M2
					M1	Dep on M2
					A1	Dep on M2
						<b>Total 3 marks</b>

29		$15c^2$	1	B1	
					<b>Total 1 mark</b>



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<b>30</b>	$H + w = 3y$ <b>or</b> $-H - w = -3y$ <b>or</b> $\frac{H}{3} = y - \frac{w}{3}$		2	M1
		$y = \frac{H + w}{3}$		A1
				oe e.g. $y = \frac{-H - w}{-3}$ , $y = \frac{H}{3} + \frac{w}{3}$
<b>Total 2 marks</b>				

<b>31</b>	(a)	$(-3, 3)(-1, 3)(-1, 6)(-2, 6)(-2, 4)(-3, 4)$		1	B1	Correct translation of shape <b>P</b>
	(b)		Rotation	3	B1	
			90° clockwise		B1	<b>or</b> -90° <b>or</b> 270° anticlockwise
			About (O)		B1	or about (0, 0) If more than one transformation then no marks
<b>Total 4 marks</b>						

<b>32</b>	(a)		080°	1	B1	80° ok. Accept 78° → 82°
	(b)			3	M1	9 cm stated or shown on diagram 8.9 to 9.1 acceptable
			(×) in correct position		M1 A1	Correct bearing (118° to 122°)
<b>Total 4 marks</b>						

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33			$125x^3y^6$	2	B2 (B1) for 2 correct terms as part of a product
<b>Total 2 marks</b>					

34			$(x + 4)(x - 9)$	2	M1 A1 For $(x + a)(x + b)$ where $ab = -36$ and $a$ and $b$ are integers Ignore extension to roots $x = -4$ & $9$
<b>Total 7 marks</b>					

35		$m = (-)4 \div 2$	$y = -2x - 1$	3	M1 B2 Correct method to work out the gradient accept $4 \div 2$ or $m = 2$  If not B2 then B1 for $L = -2x - 1$ or $-2x - 1$ or $y = 2x - 1$ or $y = -2x + c$
<b>Total 3 marks</b>					

## Practice Test 1F (Set 11) – Foundation tier mark scheme

### Performance data for Practice Test 1F (Set 11)

Edexcel averages: scores of candidates who achieved grade:

Qn	Mean score	Max score	Mean %	ALL	5	4	3	2	1	U
1	0.99	1	99	0.99	1.00	1.00	0.98	0.99	0.95	0.50
	0.99	1	99	0.99	1.00	1.00	0.99	0.99	0.90	0.50
2	0.89	1	89	0.89	1.00	0.96	0.90	0.79	0.59	0.00
3	0.88	1	88	0.88	0.96	0.95	0.93	0.73	0.59	0.00
4	0.88	1	88	0.88	0.98	0.96	0.89	0.83	0.48	0.00
5	1.63	2	82	1.63	1.96	1.87	1.62	1.40	0.52	0.00
	0.98	1	98	0.98	1.00	1.00	0.99	0.98	0.91	0.00
6	1.67	2	84	1.67	1.90	1.77	1.72	1.50	0.98	0.00
	0.92	1	92	0.92	0.99	0.96	0.92	0.90	0.68	0.00
	1.53	2	77	1.53	1.80	1.66	1.57	1.34	0.72	0.00
7	0.97	1	97	0.97	0.99	0.96	0.96	0.95	0.95	1.00
	0.82	1	82	0.82	0.99	0.92	0.81	0.68	0.40	1.00
8	1.71	2	86	1.71	1.96	1.88	1.67	1.54	1.14	0.00
9	0.93	1	93	0.93	0.99	0.98	0.97	0.86	0.65	0.50
	0.94	1	94	0.94	0.97	0.97	0.97	0.89	0.81	0.50
	1.42	2	71	1.42	1.82	1.62	1.42	1.05	0.54	0.00
10	0.75	1	75	0.75	0.96	0.87	0.77	0.51	0.26	0.00
	0.87	1	87	0.87	0.99	0.96	0.91	0.74	0.40	0.00
	0.69	1	69	0.69	0.90	0.84	0.65	0.43	0.39	0.00
11	0.85	1	85	0.85	0.96	0.93	0.84	0.74	0.59	0.50
	0.85	1	85	0.85	0.91	0.88	0.86	0.78	0.76	0.00
	0.81	1	81	0.81	0.91	0.88	0.80	0.74	0.55	0.50
12	0.84	1	84	0.84	0.95	0.94	0.90	0.69	0.37	0.00
	0.85	1	85	0.85	0.94	0.92	0.90	0.72	0.46	0.00
13	0.84	1	84	0.84	0.96	0.95	0.88	0.72	0.29	0.00
14	1.61	2	81	1.61	1.87	1.81	1.64	1.30	0.81	0.00
	1.55	2	78	1.55	1.90	1.69	1.51	1.31	0.84	0.50
15	1.18	2	59	1.18	1.74	1.42	1.07	0.69	0.52	0.50
	2.33	3	78	2.33	2.83	2.74	2.34	1.72	0.90	0.00
16	0.76	1	76	0.76	0.91	0.83	0.74	0.65	0.46	0.00

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### Edexcel averages: scores of candidates who achieved grade:

Qn	Mean score	Max score	Mean %	ALL	5	4	3	2	1	U
	0.66	1	66	0.66	0.86	0.80	0.65	0.39	0.21	0.00
<b>17</b>	0.76	1	76	0.76	0.99	0.89	0.79	0.53	0.19	0.00
<b>18</b>	0.74	1	74	0.74	0.97	0.87	0.73	0.52	0.22	0.00
<b>19</b>	0.72	1	72	0.72	0.91	0.79	0.71	0.56	0.41	0.50
<b>20</b>	1.44	2	72	1.44	1.85	1.82	1.41	0.89	0.39	0.00
<b>21</b>	0.69	1	69	0.69	0.98	0.84	0.69	0.38	0.17	0.00
<b>22</b>	2.01	3	67	2.01	2.85	2.62	1.86	1.07	0.47	0.00
<b>23</b>	0.63	1	63	0.62	0.85	0.72	0.59	0.47	0.22	0.00
<b>24</b>	0.61	1	61	0.61	0.94	0.75	0.60	0.27	0.03	0.00
<b>25</b>	1.81	3	60	1.81	2.77	2.36	1.62	0.86	0.36	0.00
<b>26</b>	1.18	2	59	1.18	1.85	1.49	1.04	0.66	0.10	0.00
<b>27</b>	1.09	2	55	1.09	1.58	1.21	1.11	0.72	0.21	0.00
<b>28</b>	1.38	3	46	1.38	2.40	1.84	1.06	0.59	0.21	0.00
<b>29</b>	0.44	1	44	0.44	0.66	0.49	0.39	0.30	0.26	0.50
<b>30</b>	0.74	2	37	0.74	1.53	0.97	0.54	0.17	0.07	0.00
<b>31</b>	0.36	1	36	0.36	0.71	0.49	0.25	0.10	0.03	0.00
	1.07	3	36	1.07	1.99	1.25	0.87	0.54	0.22	0.00
<b>32</b>	0.32	1	32	0.32	0.58	0.41	0.25	0.15	0.02	0.00
	0.90	3	30	0.90	1.91	1.19	0.59	0.27	0.07	0.00
<b>33</b>	0.42	2	21	0.42	1.14	0.47	0.22	0.10	0.07	0.00
<b>34</b>	0.41	2	21	0.41	1.15	0.50	0.18	0.05	0.00	0.00
<b>35</b>	0.31	3	10	0.31	1.02	0.32	0.10	0.04	0.00	0.00
	<b>51.62</b>	<b>80</b>	<b>65</b>	<b>51.62</b>	<b>68.53</b>	<b>59.21</b>	<b>49.37</b>	<b>37.79</b>	<b>23.34</b>	<b>7.00</b>

## Practice Test 1F (Set 11) – Foundation tier mark scheme

### Suggested grade boundaries

<b>1MA1 Practice Tests (Set 11)</b>			<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
1F	Foundation tier	Paper 1F					64	54	44	30	15
2F/3F	Foundation tier	Paper 2F/3F					53	40	27	16	8
<b>Total</b>	<b>Foundation tier</b>						<b>122</b>	<b>98</b>	<b>74</b>	<b>48</b>	<b>24</b>

(Marks for papers 1F, 2F/3F are each out of 80.)