

November Advanced Information:

Paper 3 Foundation Mark Scheme

Edexcel



Question	Working	Answer	Notes
Q1	$12 \div 4 = 3$	3	A1 cao
Q2		18	B1 cao
Q3	$3.9 \times 1000 = 3900$	3900g	A1 cao
Q4		0.103, 0.11, 0.111, 0.13, 1.03	B1 cao
Q5		20 / twenty / 2 tens	B1 a correct answer
Q6a		7.785640646	M1 $\frac{19.46410162}{2.5}$ seen or awrt 7.7
			A1 7.785640646
Q6b		7.79	B1 cao
Q7a		13, 21	A1 13
			A1 21
Q7b		No and 21, 34, 55,	M1 Sequence continued up to at least 55
			C1 Clear conclusion based on correct working
Q8	$15 \div 6 = 2.5$	250g flour	M1 Identifying that she needs 2.5 lots of the recipe
	$100 \times 2.5 = 250$ g	5 eggs	M1 Correctly finding the amount of one ingredient
	$2 \times 2.5 = 5$	625ml milk	A1 All three ingredients correct
	$250 \times 2.5 = 625$ ml		
Q9	$\frac{2}{3} = 0.66$	$\frac{5}{9}$	M1 At least two fractions correctly written as
7-	$\frac{7}{9} = 0.77$ $\frac{5}{9} = 0.55$	9	decimals
	$\frac{5}{9} = 0.55$		A1 $\frac{5}{9}$
	$\frac{5}{11} = 0.4545$		$\frac{5}{9}$ scores both marks even if working not seen



Question	Working	Answer	Notes
Q10a		5km	B1 cao
Q10b	$Time = \frac{Distance}{Speed} = \frac{7}{3.5} = 2 \text{ hours}$		B1 horizontal line from (3, 7) to (4, 7) M1 7 ÷ 3.5 or 2 hours seen A1 Correct final line from (4, 7) to (6, 0)
Q10c	$5.4 \div 8 = 0.675$ $0.675 \times 5 = 3.375$	3.375 mph	M1 Attempt to divide by 8 and multiply by 5 or attempt at equivalent correct method A1 3.375
Q11	Date Description Paid in Paid out Balance 31/08/22 Wages £1540.20 £1552.68 01/09/22 Rent £700 £852.68 03/09/22 Bill £63.51 £789.31 04/09/22 Money transfer £50 £839.31 04/09/22 Card payment £82.99 £756.32		A1 £852.68 A1 £50 A1 £82.99
Q12		She has assumed that the two angles are equal. She may not be correct.	C1 A statement that the assumption is the two angles are equal C1 Indicating she may not be correct/she is not correct



Question	Working	Answer	Notes
Q13a	y 112 113 114 115 116 117 118 119 119 119 119 119 119		B1 Correct line drawn
Q13b	3		M1 A reflection of the shape A in a vertical line of reflection A1 Fully correct reflection
Q13c		Enlargement Scale factor 3 Centre (0, 0)	B1 Any two conditions seen B1 All three conditions correct



Question	Working	Answer	Notes
Q14a	y 260 240 220 200 180 160 100 80 60 40 20 40 20 100 80 60 40 20 40 40 20 40 40 40 40 40 40 40 40 40 4	170g	M1 Evidence of use of graph A1 170g 170g scores both marks
Q14b	7 pounds 8 ounces: $7 \times 16 + 8 = 120$ ounces $20 \times 170 = 3400g$	3400g	P1 Converting pounds and ounces to ounces or using their conversion from part a or another conversion found from the graph to convert 120 ounces to grams A1 3400g
Q15	$18 \times 8 \times 6 = 864$	864cm ³	M1 $18 \times 8 \times 6$ A1 864 B1 Correct units cm ³



Question	Working	Answer	Notes
Q16a			M1 A line that goes right 3 and up 1 drawn anywhere on the grid A1 Correct arrow indicating direction
Q16b	$2\binom{1}{3} + \binom{-1}{4} = \binom{2}{6} + \binom{-1}{4} = \binom{1}{10}$	$\begin{pmatrix} 1 \\ 10 \end{pmatrix}$	M1 Correct vectors for a and b seen M1 Correctly multiplying the vector a by 2 A1 $\binom{1}{10}$
Q17	$\frac{32}{160} \times 360 = 72^{\circ}$ $\frac{48}{160} \times 360 = 108^{\circ}$ $\frac{40}{160} \times 360 = 90^{\circ}$ $\frac{12}{160} \times 360 = 27^{\circ}$ $\frac{28}{160} \times 360 = 63^{\circ}$ Purple Red Yellow Green Blue		M1 At least two of the angles correct - angles can be seen written or drawn on the pie chart M1 All five angles correct M1 All angles drawn on the pie chart correctly A1 Fully correct pie chart including labels



Question	Working	Answer	Notes
Q18	Total under 40 120 winder 40 30 Female 150 Total under $40: 120 + 30 = 150$ Total over $40: 80 + 120 = 200$	150:200 3:4	M1 200 and 150 correctly placed M1 120 and 80 or 30 and 120 correctly placed M1 Frequency tree fully correct A1 150:200 oe
Q19a	180 - 90 - 64 = 26°	26°	A1 26°
Q19b	$10.5 \div 7 = 1.5$ $12 \times 1.5 = 18$	18	M1 $10.5 \div 7 = 1.5$ A1 $12 \times 1.5 = 18$
Q20	$10 \times 5.5 = 55$ $55 - 6 + 0 = 49$ $49 \div 10 = 4.9$	4.9 years	P1 Calculating the total time for the 10 teachers to be 55 years P1 Subtracting 6 and adding 0 and dividing by 10 A1 4.9
Q21a		6.21 10 ⁵	B1 6.2110^x where x is a positive integer B1 6.2110^5
Q21b		0.00173	B1 cao



Question	Working	Answer	Notes
Q21c	820000 + 39000 = 859000	8.59×10^{5}	M1 Attempt to convert both numbers to ordinary numbers and add them or to change one number so that the powers of 10 are equal E.g. $(8.2 \times 10^5) + (0.39 \times 10^5)$ A1 8.59×10^5 must be in standard form
Q22	$T = \frac{40M - N^2}{3}$ $3T = 40M - N^2$ $3T + N^2 = 40M$ $\frac{3T + N^2}{40} = M$	$M=rac{3T+N^2}{40}$	M1 Reaching $3T + N^2 = 40M$ A1 $M = \frac{3T + N^2}{40}$
Q23	Large: $\pi \times 3^2 \times 11 = 311.0 \text{cm}^3$ Small: $\pi \times 2^2 \times 8 = 100.5 \text{cm}^3$ $2 \times 100.5 = 201 \text{cm}^3$	1 large	P1 Finding the volume of the large can P1 Finding the volume of the small can and doubling C1 Correct conclusion based on correct working



Question	Working	Answer	Notes
Q24a	$ \begin{array}{c} \frac{1}{4} & \text{Green} \\ \hline \frac{1}{6} & \frac{3}{4} & \text{Not} \\ \text{green} & \\ \hline \frac{5}{6} & \text{Not 6} \end{array} $ Not green Not green		A1 $\frac{5}{6}$ or $\frac{3}{4}$ correctly placed A1 Fully correct
Q24b		$\frac{1}{6}$	A1 cao
Q24c	$P(\text{win £5}) = \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$	1:23	P1 Finding the probability of winning £5 P1 Working out the 23 people don't win: 23 or $\frac{23}{24}$ seen A1 1:23
Q25a	$4800 \times 1000 = 4800000 \text{cm}^3$	4800000cm ³	$M1 4800 \times 1000$ $A14800000cm^3$
Q25b	$4800000 \times 100^3 = 4.8$	4.8m ³	M1 1m = 100cm seen or implied or attempting to divide by 100 three times or to divide by 100^3 A1 4.8m^3
Q25c	$4.8 \times £1.58 = £7.58$	£7.58	A1 cao

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