

November Advanced Information:

Paper 2 Foundation Mark Scheme

Edexcel



Question	Working	Answer	Notes
Q1		-3, -1, 3, 10, 13	B1 cao
Q2		23cm	B1 cao
Q3		$\frac{45}{100}$	B1 oe
Q4		$\frac{1}{3}$	B1 cao
Q5a		5.7cm	B1 Anwer in range 5.6 - 5.8cm oe B1 Must include correct units
Q5b		53°	B1 Answer in range 52° - 54°
Q6		210 000	B1 cao
Q7	£7.99 + 2 × £8.49 = £24.97 £30 - £24.97 = £5.03	£5.03	P1 Adding three values to find the total price P1 Subtracting from £30 A1 £5.03
Q8a		3x + 15	B1 cao
Q8b	21y + 28 - 10y - 5 $11y + 23$	11y + 23	M1 $21y + 28$ seen or - $10y - 5$ A1 $11y + 23$
Q8c		$x = 3 \text{ or } x = -\frac{5}{2}$	$A1 x = 3$ $A1 x = -\frac{5}{2}$



Question	Working	Answer	Notes
Q9	$\frac{33}{40} = \frac{99}{120}$ $\frac{24}{30} = \frac{96}{120}$ $\frac{7}{12} = \frac{70}{120}$	$\frac{7}{12}$, $\frac{24}{30}$, $\frac{33}{40}$ Sarah, Claire, Jenna	M1 At least two fractions written with a common denominator M1 All three fractions correctly written with common denominator A1 Order correct. May be given as fractions or names
Q10a	17 6 18 0 4 4 5 8 19 2 6 8 9 Key: 17 6 = 176 20 0 1 4 4 5 21 1 3 4		M1 At least 15 items placed into a stem and leaf diagram M1 All 18 items placed A1 All items ordered A1 A correct key
Q10b	$\frac{198+199}{2}=198.5$	198.5	M1 198 and 199 identified. May be marked on diagram. Must be unambiguous. A1 198.5
Q10c		175 is smaller than any of the values - we would expect the mean to be roughly in the middle	C1 A correct statement



Question	Working	Answer	Notes
Q11	Pen Pencil Colouring pencil Item type		M1 5 pencils or 6 pens seen A1 5 pencils, 6 pens, 9 others B1 Frequency correctly labelled M1 At least 3 bars correct A1 Fully correct bar chart
Q12	$C = 25 \times 3 + 100 = £175$	£175	M1 3 substituted into formula A1 £175
Q13	£325 ÷ 5 = £65 per room per night 21 nights booked $21 \times £65 = £1365$	£1365	M1 £65 per room per night seen or implied M1 21 nights seen A1 £1365
Q14a	Sam: s , Anne: $3s$, Aurelia: $s - 26$ s + 3s + s - 26 = 114 5s - 26 = 114		C1 Sam: <i>s</i> , Anne: 3 <i>s</i> , Aurelia: <i>s</i> - 26 C1 Correct simplification to reach 5 <i>s</i> - 26 = 114
Q14b	5s - 26 = 114 $5s = 140$ $s = 28$	Anne: 84 Sam: 28 Aurelia: 2	M1 Solving equation to give $s = 28$ A1 All ages correct



Question	Working	Answer	Notes
Q15	$1.5 \times 60 = 90$ $90 \div 72 = 1.25 \text{ hours}$ 1.5 - 1.25 = 0.25 hours = 15 minutes	15 minutes	M1 $1.5 \times 60 = 90$, $90 \div 72 = 1.25$ hours A1 $1.5 - 1.25 = 0.25$ hours A1 15 minutes
Q16		$3.815 \le w < 3.825$	A1 3.815 correctly placed A1 3.825 correctly placed
Q17a		4n - 5	M1 4 <i>n</i> or difference of 4 seen A1 4 <i>n</i> - 5
Q17b		No, all the terms are odd	C1 No C1 All terms are odd or other correct explanation
Q17c	-1, 3, 7, 11, 15, 19, 23, 27, 31, 35, 39, 11, 17, 23, 29, 35, 41,	23 and 35	M1 Correct terms for $6n + 5$ listed A1 23 and 25
Q18	$7 \times 10 = 70$ $\frac{1}{2} \times 4 \times 10 = 20$ $\frac{1}{2} \times \pi \times 5^{2} = 39.2699$ $70 - 20 + 39.2699 = 89.2699$	89.27cm ²	M1 Area of rectangle: 70cm ² and area of triangles 20cm ² M1 Area of semi circle 39.2699 cm ² A1 70 - 20 + 39.2699 = 89.2699 A1 Correctly rounded 89.27cm ²
Q19			M1 One side length correct (6 or 4) A1 Rectangle with side lengths 6 and 4



Question	Working	Answer	Notes
Q20a	Temperature (degrees Celsius)		B1 Point plotted correctly
Q20b	100 Solution 100 S		M1 Reasonable line of best fit drawn A1 Answer in range 49 - 51. Must see evidence that this has come from graph
Q20c		24	B1 cao
Q21	$0.75 \times 72 = 54$ Yoghurt: $\frac{10}{10} \times 8 = 8g$ Chicken: $\frac{24}{4} \times 3 = 18g$ Peanuts: $\frac{26}{10} \times 4 = 10.4g$ Beans: $23 \times 2 = 46g$ 8 + 18 + 10.4 + 46 = 82.4g	He ate more than his recommended daily intake.	P1 Finding the amount of protein Badar requires by multiplying 0.75 by 72 P1 Correctly finding protein amounts for two of the foods P1 Correctly finding protein amounts for all foods P1 Adding the protein amounts C1 Correct conclusion following correct working



Question	Working	Answer	Notes
Q22a		(-1, -9)	B1 cao
Q22b		-8	B1 cao
Q22c		x = -4, x = 2	B1 x = -4 $B1 x = 2$
Q23a	$\frac{518}{140} \times 100 = £370$	£370	M1 518 = 140% or dividing by 140 or 1.4 A1 £370
Q23b	$28000 \times 1.02^{3} = £29173.82$	£29713.82	M1 28000×1.02^3 or 28000 + 560 = £28560 for first year seen A1 £29713.82
Q23c	£29173.82 - £28000 = £1173.82 £1173.82 ÷ 12 = £97.82 extra per month Bill increase: £518 - £370 = £148 Yes he is correct	Yes	P1 Calculating monthly increase in salary P1 Calculating monthly increase in bills C1 Correct conclusion
Q24	$PR = 11 \times tan(32) = 6.87356$ $cos(x) = \frac{6.87356}{21}$ $x = 70.89426$ $x = 70.9^{\circ}$		M1 $PR = 11 \ tan(32)$ A1 $PR = 6.87356$ M1 $cos(x) = \frac{6.87356}{21}$ or $x = cos^{-1}(\frac{6.87356}{21})$ C1 Correct steps leading to $x = 70.9^{\circ}$

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