Answers to Revision Paper B	
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1	Order the temperatures 15 16 17 17 18 19 20 22 24 25
	The median is 18 . 5 , the quartiles are 17 and 22. The semi-interquartile range is $\frac{22-17}{2} = 2.5$
	On average temperatures are higher in July. Temperatures are more consistent in July (less
2	varied). OR Temperatures are less consistent in August.
2	(3x+5)(4x-3) + 5x = 12x ² - 9x + 20x - 15 + 5x
	$= 12x^{2} + 20x - 13 + 3x^{2}$ $= 12x^{2} + 16x - 15$
3	$\frac{-12x}{148300 \times 1.018^5} = 162136.219 = 162100$
4	Gradient is $\frac{35-23}{17-11} = \frac{20}{5}$ The straight line is $y = 4x + 5.5 \rightarrow W = 4A + 5.5$
	A lamb which is 5 weeks has an estimated weight of $25.5kg$
5	9-2(x-1) > 5, $9-2x+2 > 5$, $-2x > -6$, $x < 3$, $x < 3$
6	$p = \frac{m+h^3}{2} \rightarrow 2p = m+h^3 \rightarrow 2p - m = h^3 \rightarrow h = \sqrt[3]{2p-m}$
	$p = \frac{p}{2} \rightarrow 2p = m + h^3 \rightarrow 2p - m = h^3 \rightarrow h = \sqrt[3]{2p - m}$
7	SR is a tangent to the circle at S so SOR is a right-angled triangle.
	Triangle POS is isosceles where $\angle OPS = \angle OSP = 17^{\circ}$
	Angle PSR is $17^{\circ} + 90^{\circ} = 107^{\circ}$, angle QRS is $180^{\circ} - 17^{\circ} - 107^{\circ} = 56^{\circ}$
8	3f + 4r = 185 $6f + 8r = 370$ $r = 20, f = 35$
	2f + 3r = 130 $6f + 9r = 390$
	A full pass is £35 and a restricted pass is £20 1 7 x 7 x - 7
9	$\frac{1}{x} - \frac{7}{x^2} = \frac{x}{x^2} - \frac{7}{x^2} = \frac{x - 7}{x^2}$
	$x x^2 x^2 x^2 x^2$
10	Form a right-angled triangle
	5 7
	x
	Using Pythagoras, $7^2 - 5^2 = 24$, $x = 4.9$ The width of chord AB is $2 \times 4.9 = 9.8$ cm
11	$4x + 3y = 12$, $3y = -4 + 12$, $y = -\frac{4}{3}x + 4$. The gradient is $m = -\frac{4}{3}$
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