

PIXL Pre Public Examination, June 2016, 3H, Edexcel Style Mark Scheme

Qs	Working	Answer	Mark	Notes
1	<p>Area of trapezium = $16/2 (14+18)$ $= 8 \times 32 = 256 \text{ cm}^2$ Area of two semicircles $A = \pi \times 3.5^2 = 38.48451001$</p> <p>Area of shaded region = $256 - 38.48451001 = 217.51549 = 218$ <i>3sf</i></p>	218	4	<p>P1 For start to process eg. radius = $14 \div 4 (= 3.5)$ M1 Method to find area of trapezium or semicircle or circle P1 Process to find area of the shaded region</p> <p>A1 217.51... = 218.</p>
2(a)	$675 \times 1.45075 = 979.25625 =$ $9979 \text{ to nearest dollar}$	979	2	<p>M1 675×1.45075 A1 979 = 979.3</p>
(b)	$135 \div 3 \times 2 = 30 \times 2$ Or $60 \div 2 = 30 \text{ and } 30 \times 2 = 210$	shown	2	<p>M1 For correct method to convert cost in UK to dollars or vice versa, using Sanjay's approximation C1 Shown with correct calculations</p>
(c)		yes	1	<p>C1 For an evaluation eg. It is a sensible start to the method because he can do the calculations without a calculator and 1.5 dollars to the £ makes more sense to get comparisons.</p>
3(a)	<p>6th term: $7+11 = 18$ 7th term: $11+18 = 29$ 8th term: $29+18 = 47$</p>	47	1	<p>B1 cno</p>

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G Thomas

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'G Thomas' text.

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web a hex key also hex wrench allen key and allen wrench or inbus is a simple driver for bolts or screws that have heads with internal hexagonal recesses hex keys are formed from a single piece of hard hexagonal steel rod having blunt ends that fit snugly into similarly shaped screw sockets the rods are bent to 90° forming two arms of unequal

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web head designs that overlap both bolts and screws are the allen or torx heads hexagonal or splined sockets these modern designs span a large range of sizes and can carry a considerable torque rusty hexagonal bolt heads the american institute of steel construction 13th edition steel design manual section 16 1 chapter j 3 specifies the

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web the formula used to calculate the bolt area is as follows bolt area $ba = 0.7854 d^2 n$ in this formula d represents the bolt diameter in inches and n represents the number of threads per inch the bolt area is calculated by subtracting 0.9734 divided by the threads per inch from the bolt diameter and then squaring the

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web proximate joint and bolt stiffness is outlined in paragraph 5.0 the slope of the force angle of turn relationship can be represented by the following equation where k_b bolt spring rate lb/in k_c joint spring rate lb/in

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web jun 3 2020 calculation and drawing of hexagon bolt when drawing the bolt connection first calculate the nominal length l of the bolt the length of bolt $l = k_1 + k_2 + b_1$ after calculating the length check the national standard and take the standard length l according to the bolt length series

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head bolts are a fastener used to assemble two or more items they are often found in construction projects and repairs but can also be used for other tasks such as furniture assembly

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web mar 30 2023 standard conventional proportions may be considered while drawing a hexagonal nut width of the nut across the flat surface known as size across flat $1.5d + 3 \text{ mm}$ the diameter of the nut d in mm the thickness of the nut $0.8d$ to d the radius of front chamfer $1.5d$ the angle of chamfer 30°

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