

Question	Answer	Marks	Part marks
1(a)(i)	$600 \div (11 + 9) \times 11$ [=330] with no errors seen	<b>M1</b>	Could be in separate steps
1(a)(ii)	270	<b>1</b>	
1(b)(i)	372 <i>cao nfw/w</i>	<b>3</b>	<b>B2</b> for answer 371.7... or <b>M1</b> for $330 \times \left(1 + \frac{1.5}{100}\right)^8$ <i>oe</i> not spoiled After zero scored, <b>SC1</b> for answer 42 or 41.7...
1(b)(ii)	12.6 or 12.7 or 12.63 to 12.73	<b>2</b>	<b>M1</b> for $\frac{\text{their (b)(i)} - 330}{330}$ or $\frac{\text{their (b)(i)}}{330} \times 100$ <i>soi</i> by 112.7 or 113 After zero scored, <b>SC1</b> for answer 12%
1(c)(i)	$\frac{99}{280}$ <i>cao final answer</i>	<b>1</b>	
1(c)(ii)	27.5[0]	<b>3</b>	<b>M2</b> for $24.75 + \frac{100 - 10}{100}$ <i>oe</i> or <b>M1</b> for recognising 24.75 as 90[%] <i>oe</i>
1(d)(i)	32 <i>cao</i>	<b>2</b>	<b>M1</b> for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right)[x]$ <i>oe</i> or for $0.15 \times 0.8 [x]$ <i>oe</i>
1(d)(ii)	13 <i>cao</i>	<b>2</b>	<b>M1</b> for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right) \times x = 40.84 - 32$ <i>oe seen</i> or for $\text{their (d)(i)} + \left(1 - \left(\frac{\text{their (d)(i)}}{100}\right)\right)x = 40.84$ <i>oe</i>
2(a)(i)	Image at (8, 1), (10, 5), (8, 5)	<b>2</b>	<b>B1</b> for translation $\begin{pmatrix} 6 \\ k \end{pmatrix}$ or $\begin{pmatrix} k \\ -5 \end{pmatrix}$ or 3 correct points not joined
2(a)(ii)	Image at (4, 10), (4, 8), (8, 8)	<b>2</b>	<b>B1</b> for rotation 90° anticlockwise but different centre or for rotation 90° clockwise about (-4, 10) or 3 correct points not joined
2(a)(iii)	Image at (6, 3), (6, 5), (7, 5)	<b>2</b>	<b>B1</b> for enlargement factor $\frac{1}{2}$ but incorrect centre or 3 correct points not joined
2(b)	Reflection	<b>1</b>	
	$y = -x$ <i>oe</i>	<b>1</b>	If zero scored, <b>M1</b> for correct use of matrix product

# January 6 2015 3h Mark Scheme Igcse Mathematics A

**K Morrison**



**January 6 2015 3h Mark Scheme Igcse Mathematics A:**

## January 6 2015 3h Mark Scheme Igcse Mathematics A Book Review: Unveiling the Power of Words

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web lewis structures a lewis structure is a representation of covalent molecules or polyatomic ions where all the valence electrons are shown distributed about the bonded atoms as either shared electron pairs bond pairs or unshared electron pairs lone pairs a shared pair of electrons is represented as a short line a single bond

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web molecular models and 3d printing activity lewis dot structures and molecule geometries worksheet answer key 6 10 co 3 2 total number of valence electrons 24 cad engineered 3d sketch model show dipole arrows lewis structure is there a polar bond in this molecule yes or no vsepr shape name trigonal planar bond angles 120

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web jun 8 2022 lewis structure in chemistry lewis structures also called electron dot structures or electron dot diagrams are diagrams that show the bonding between atoms of a molecule and the lone pairs of

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web this exercise required us to take the formulas in the data table and calculate the number of valence electrons using the periodic table draw its lewis structure on paper build the molecular model and record a photo list the number of bonds and lone pairs surrounding the central atom and lastly identify the structure geometry