

Question	Answer	Marks	Part marks
1(a)(i)	$600 \div (11 + 9) \times 11$ [=330] with no errors seen	M1	Could be in separate steps
1(a)(ii)	270	1	
1(b)(i)	372 <i>cao nfw/w</i>	3	B2 for answer 371.7... or M1 for $330 \times \left(1 + \frac{1.5}{100}\right)^8$ <i>oe</i> not spoiled After zero scored, SC1 for answer 42 or 41.7...
1(b)(ii)	12.6 or 12.7 or 12.63 to 12.73	2	M1 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, SC1 for answer 12%
1(c)(i)	$\frac{99}{280}$ <i>cao final answer</i>	1	
1(c)(ii)	27.5[0]	3	M2 for $24.75 + \frac{100 - 10}{100}$ <i>oe</i> or M1 for recognising 24.75 as 90[%] <i>oe</i>
1(d)(i)	32 <i>cao</i>	2	M1 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>	2	M1 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)	2	B1 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)	2	B1 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)	2	B1 for enlargement factor $\frac{1}{2}$ but incorrect centre or 3 correct points not joined
2(b)	Reflection	1	
	$y = -x$ <i>oe</i>	1	If zero scored, M1 for correct use of matrix product

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web oct 13 2020 during the s phase the cell replicates its genome in preparation for cell division or mitosis mitosis occurs during m phase which occurs after interphase phases mitosis is conventionally divided into 5 phases which include prophase prometaphase metaphase anaphase and telophase and cytokinesis

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web diagram indicating kinetochore microtubules bound to kinetochores and the aster the aster is an array of microtubules that radiates out from the centrosome towards the cell edge diagram also indicates the centromere region of a chromosome the narrow waist where the two sister chromatids are most tightly connected and the kinetochore a

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web dec 8 2016 mitosis definition mitosis is the step in the cell cycle that the newly duplicated dna is separated and two new cells are formed this process is important in single celled eukaryotes as it is the process of asexual reproduction in multicelled eukaryotes mitosis is how a single zygote can become an entire organism

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web the daughter cells are clones of each other every base pair of theirs is identical the stages of the cell cycle are the stages of mitosis are prophase metaphase anaphase

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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