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### GCSE (9–1) Mathematics J560/06 Paper 6 (Higher Tier) Sample Question Paper

## Date - Morning/Afternoon

Time allowed: 1 hour 30 minutes

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- · A scientific or graphical calculator
- · Geometrical instruments
- · Tracing paper



First name	
Last name	
Centre number	Candidate number

#### **INSTRUCTIONS**

- Use black ink. You may use an HB pencil for graphs and diagrams.
- Complete the boxes above with your name, centre number and candidate number.
- Answer all the questions.
- · Read each question carefully before you start to write your answer.
- Where appropriate, your answers should be supported with working. Marks may be given for a correct method even if the answer is incorrect.
- · Write your answer to each question in the space provided.
- Additional paper may be used if required but you must clearly show your candidate number, centre number and question number(s).
- · Do **not** write in the bar codes.

#### **INFORMATION**

- The total mark for this paper is **100**.
- The marks for each question are shown in brackets [ ].
- Use the  $\pi$  button on your calculator or take  $\pi$  to be 3.142 unless the question says otherwise.

J560/06

This document consists of 20 pages.

### Answer all the questions

1	180 g of copper is mixed with 105 g of zinc to make an allog	y.
	The density of copper is 9 g/cm <sup>3</sup> . The density of zinc is 7 g/cm <sup>3</sup> .	
	(a) Work out the volume of copper used in the alloy.	
		(a) cm <sup>3</sup> [2]
	(b) What is the density of the alloy?	
		<b>(b)</b> g/cm <sup>3</sup> <b>[4]</b>

			3	
2	(a)	(i)	Solve.	
			5x + 1 > x + 13	
				(a)(i)[3]
		(ii)	Write down the largest integer that satisfies $5x - 1$	< 10.
				(ii)[1]
	(b)	Sol	ve.	
			$3x^2 = 75$	
				(b) x =[2]
	(c)	Sol	ve.	
			4x + 3y = 5 $2x + 3y = 1$	
			2x + 3y = 1	

[3]

(a)	This	s expression can be used to generate a sequence of numbers.	
		$n^2 - n + 11$	
	(i)	Work out the first three terms of this sequence.	
		(a)(i), ,, ,	[2]
	(ii)	Show that this expression does not only generate prime numbers.	
			[2]
(b)	Maı	rta says	
		odd square numbers have exactly three factors.	
		e one example where this is correct and another where this is not correct. each case, write down the number and its factors.	
	Cor	rect	
	Not	correct	
			[2]

- **(c)** Here are some properties of a number.
  - It is a common factor of 288 and 360.
  - It is a common multiple of 4 and 6.
  - It is larger than 25.

Find the **two** possible numbers with these properties.

1	C	) and	[4]
١	_	<i>,</i> and	ניין

4 Here are the interest rates for two accounts.

Account A
Interest: 3% per year compound interest.
No withdrawals until the end of three years.

**Account B** 

Interest: 4% for the first year, 3% for the second year and

2% for the third year.

Withdrawals allowed at any time.

Derrick has £10000 he wants to invest.

(a) Calculate which account would give him most money if he invests his money for 3 years. Give the difference in the interest to the nearest penny.

	(a) Account by p [5]
b)	Explain why he might <b>not</b> want to use Account A.
	[1]

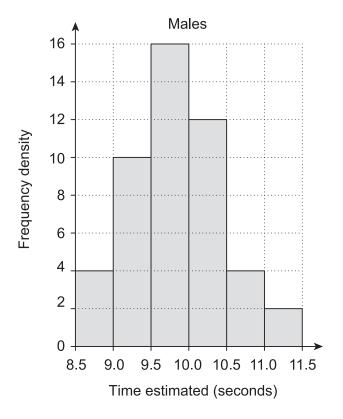
Lei is in a class of 28 students, 3 of whom are left-handed.

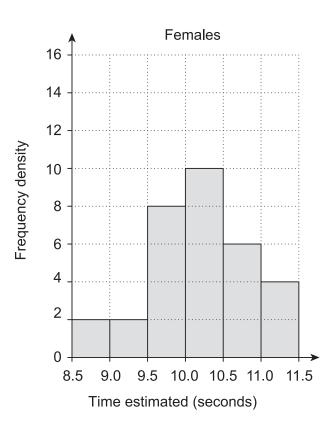
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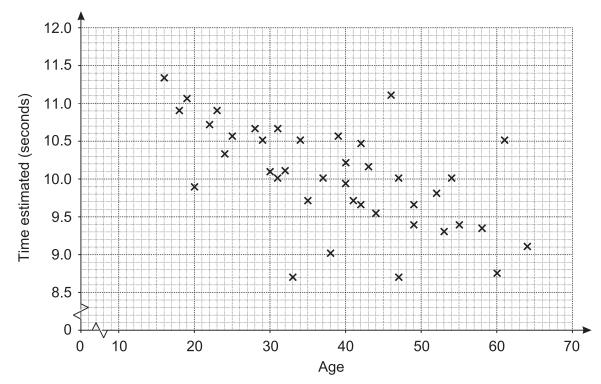
The	ere are 1250 students in the school.
(a)	Use this information to estimate how many students in the school are left-handed.
	(a)[3]
(b)	Is your solution to <b>(a)</b> likely to be an overestimate or an underestimate? Explain your reasoning.
	[1]
(c)	Vid is at a different school.  He is in a class of 26 students, 6 of whom are left-handed.
	Vid says to Lei
	In our two classes there are 54 students, 9 of whom are left-handed. We can use this bigger sample to improve the estimate for your school.
	What assumption has Vid made? Explain whether you think that his argument is correct.
	[2]

John wants to investigate whether men in the UK are better at estimating a time interval of 10 seconds than women in the UK. He decides to sample the population by asking his work colleagues to take the test.

The diagrams below summarise John's results.







	(a)	Wha	at information from the diagrams can be used to support each of these statements?
		(i)	The older John's colleagues are, the lower their estimate is.
			[1]
		(ii)	Males in the sample tend to underestimate the interval and females in the sample tend to overestimate the interval.
			[2]
	(b)		nment on whether any conclusions can be drawn for the UK population from the results nis sample.
		•••••	[2]
7	Witl	hout	using a calculator, show clearly that $64^{\frac{2}{3}}$ is equal to 16. [2]

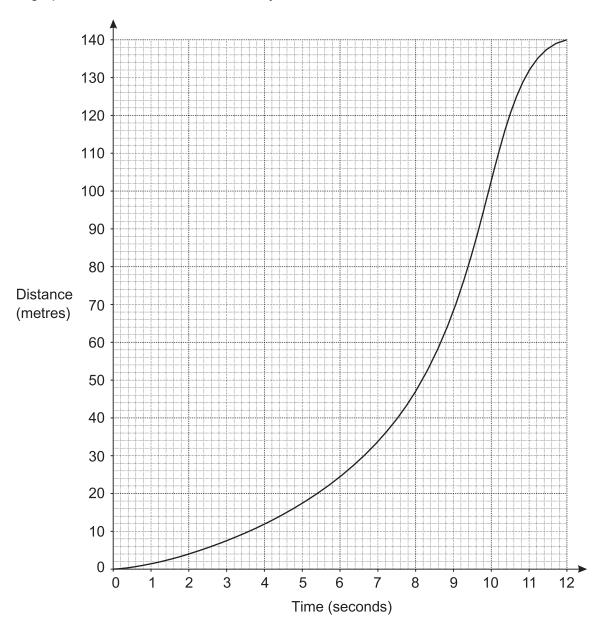
8	(a)	Prove that the sum of four consecutive whole numbers is always even.	[3]
	(b)	Give an example to show that the sum of four consecutive integers is <b>not</b> always divisible by 4.	;
			[2]

- **9** Alexander, Reiner and Wim each watch a different film.
  - Alexander's film is thirty minutes longer than Wim's film.
  - Reiner's film is twice as long as Wim's film.
  - Altogether the films last 390 minutes.

How long is each of their films?

minutes	Alexander's film
minutes	Reiner's film
minutes	Wim's film
[4]	

10 The graph shows the distance travelled by an animal over 12 seconds.



(a) Work out the average speed between 2 and 8 seconds.

(a) ..... m/s [2]

**(b)** Estimate the speed of the animal at 6 seconds.

(b) ..... m/s [4]

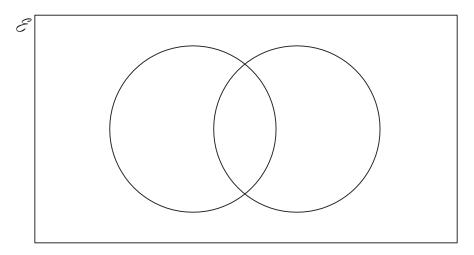
(	(C)	)	N	u	ri	say	٧S
٨		,		ч		ou	y U

I think this animal must be able to move at over 20 m/s!

you agree with Nuri?
plain your decision.
•
[2

- 11 A skills test has two sections, literacy (L) and numeracy (N).
  One day everyone who took the skills test passed at least one section.
  88% passed the literacy section and 76% passed the numeracy section.
  - (a) Represent this information on a Venn diagram.

    Show clearly the **percentage** in each section of the diagram.



[3]

(b) One person is chosen at random from all the people who took the skills test that day.

What is the probability that this person

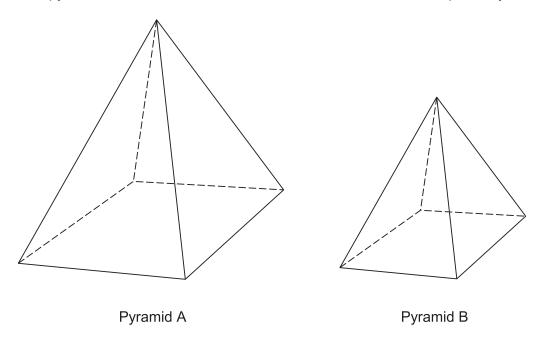
(i) passed the numeracy section, given that they passed the literacy section,

(b)(i) ......[2]

(ii) passed the literacy section, given that they passed only one section?

(ii) ......[2]

12 Two similar pyramids A and B have surface areas 180 cm<sup>2</sup> and 80 cm<sup>2</sup> respectively.

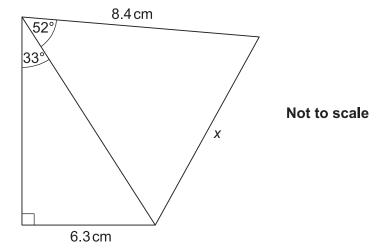


The volume of pyramid A is 810 cm<sup>3</sup>.

Show that the volume of pyramid B is  $240\,\text{cm}^3$ .

[5]

#### **13** Calculate *x*.



..... cm **[5]** 

14	A straight line	goes through	the points (	p. a)	and (r	s), where
	/ tottaignt into	goco unougn	tile politio (	P, YI	ana (7, t	$J_{j}$ , which c

- p + 2 = r
- q + 4 = s.

Find the gradient of the line.

.....[3]

**15** A unit fraction has a numerator equal to 1, for example  $\frac{1}{3}$ ,  $\frac{1}{7}$  and  $\frac{1}{25}$ .

Unit fractions can be written as the sum of two different unit fractions, for example

$$\frac{1}{2} = \frac{1}{3} + \frac{1}{6}$$

Write each of the following unit fractions as the sum of two different unit fractions.

$$\frac{1}{4} = \frac{1}{\boxed{\phantom{A}}} + \frac{1}{\boxed{\phantom{A}}}$$

$$\frac{1}{5} = \frac{1}{\boxed{\phantom{0}}} + \frac{1}{\boxed{\phantom{0}}}$$

$$\frac{1}{6} = \frac{1}{\boxed{\phantom{0}}} + \frac{1}{\boxed{\phantom{0}}}$$

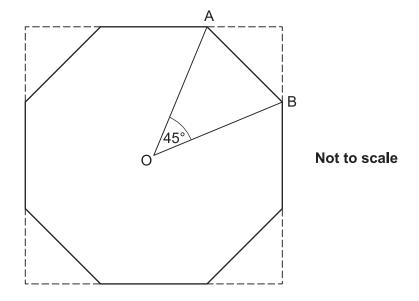
[3]

16 Simon cuts the corners off a square piece of card to leave the regular octagon shown below. O is the centre of the octagon.

A and B are vertices of the octagon.

OA = OB = 5 cm.

Angle AOB =  $45^{\circ}$ .



(a) (i) Work out the area of the octagon.

(a)(i)	 cm <sup>2</sup>	[3]
<b>(∽)(·)</b>	 0111	[~]

	(ii)	Work out the area of the original square piece of card.	
		(i	i) cm <sup>2</sup> [5]
		(1	i) Giii [3]
(b)		mon now makes a table top using the card as a model. he sides of the table top are 8 times as long as the sides of	of the card model.
	Find	nd the ratio of the <b>area</b> of Simon's table top to the <b>area</b> of	the card model.
		(	(b)[2]
		•	[-]

17 
$$y = 6x^4 + 7x^2$$
 and  $x = \sqrt{w+1}$ .

Find the value of w when y = 10. Show your working.

$$w = \dots$$
 [6]

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Date – Morning/Afternoon		
GCSE (9–1) Mathematics J560/06 Paper 6 (Higher Tie	er)	
SAMPLE MARK SCHEME		<b>Duration:</b> 1 hour 30 minutes
MAXIMUM MARK 100		
	DRAFT	

This document consists of 13 pages

#### **Subject-Specific Marking Instructions**

- 1. **M** marks are for <u>using a correct method</u> and are not lost for purely numerical errors.
  - A marks are for an <u>accurate</u> answer and depend on preceding **M** (method) marks. Therefore **M0 A1** cannot be awarded.
  - **B** marks are <u>independent</u> of **M** (method) marks and are for a correct final answer, a partially correct answer, or a correct intermediate stage. **SC** marks are for special cases that are worthy of some credit.
- 2. Unless the answer and marks columns of the mark scheme specify **M** and **A** marks etc, or the mark scheme is 'banded', then if the correct answer is clearly given and is <u>not from wrong working</u> **full marks** should be awarded.
  - Do <u>not</u> award the marks if the answer was obtained from an incorrect method, ie incorrect working is seen <u>and</u> the correct answer clearly follows from it.
- 3. Where follow through (FT) is indicated in the mark scheme, marks can be awarded where the candidate's work follows correctly from a previous answer whether or not it was correct.
  - Figures or expressions that are being followed through are sometimes encompassed by single quotation marks after the word *their* for clarity, e.g. FT 180 × (*their* '37' + 16), or FT 300  $\sqrt{(their '5^2 + 7^{2i})}$ . Answers to part questions which are being followed through are indicated by e.g. FT 3 × *their* (a).
  - For questions with FT available you must ensure that you refer back to the relevant previous answer. You may find it easier to mark these questions candidate by candidate rather than question by question.
- 4. Where dependent (**dep**) marks are indicated in the mark scheme, you must check that the candidate has met all the criteria specified for the mark to be awarded.
- 5. The following abbreviations are commonly found in GCSE Mathematics mark schemes.
  - **figs 237**, for example, means any answer with only these digits. You should ignore leading or trailing zeros and any decimal point e.g. 237000, 2.37, 2.370, 0.00237 would be acceptable but 23070 or 2374 would not.
  - **isw** means **ignore subsequent working** after correct answer obtained and applies as a default.
  - nfww means not from wrong working.
  - oe means or equivalent.
  - rot means rounded or truncated.
  - **seen** means that you should award the mark if that number/expression is seen anywhere in the answer space, including the answer line, even if it is not in the method leading to the final answer.

- soi means seen or implied.
- 6. In questions with no final answer line, make no deductions for wrong work after an acceptable answer (ie **isw**) unless the mark scheme says otherwise, indicated by the instruction 'mark final answer'.
- 7. In questions with a final answer line following working space:
  - (i) If the correct answer is seen in the body of working and the answer given on the answer line is a clear transcription error allow full marks unless the mark scheme says 'mark final answer'. Place the annotation ✓ next to the correct answer.
  - (ii) If the correct answer is seen in the body of working but the answer line is blank, allow full marks. Place the annotation ✓ next to the correct answer.
  - (iii) If the correct answer is seen in the body of working but a completely different answer is seen on the answer line, then accuracy marks for the answer are lost. Method marks could still be awarded. Use the M0, M1, M2 annotations as appropriate and place the annotation \* next to the wrong answer.
- 8. In questions with a final answer line:
  - (i) If one answer is provided on the answer line, mark the method that leads to that answer.
  - (ii) If more than one answer is provided on the answer line and there is a single method provided, award method marks only.
  - (iii) If more than one answer is provided on the answer line and there is more than one method provided, award zero marks for the question unless the candidate has clearly indicated which method is to be marked.
- 9. In questions with no final answer line:
  - (i) If a single response is provided, mark as usual.
  - (ii) If more than one response is provided, award zero marks for the question unless the candidate has clearly indicated which response is to be marked.
- 10. When the data of a question is consistently misread in such a way as not to alter the nature or difficulty of the question, please follow the candidate's work and allow follow through for **A** and **B** marks. Deduct 1 mark from any **A** or **B** marks earned and record this by using the MR annotation. **M** marks are not deducted for misreads.

- 11. Unless the question asks for an answer to a specific degree of accuracy, always mark at the greatest number of significant figures even if this is rounded or truncated on the answer line. For example, an answer in the mark scheme is 15.75, which is seen in the working. The candidate then rounds or truncates this to 15.8, 15 or 16 on the answer line. Allow full marks for the 15.75.
- 12. Ranges of answers given in the mark scheme are always inclusive.
- 13. For methods not provided for in the mark scheme give as far as possible equivalent marks for equivalent work. If in doubt, consult your Team Leader.
- 14. Anything in the mark scheme which is in square brackets [...] is not required for the mark to be earned, but if present it must be correct.

Q	Question		Answer	Marks	Part marks and guidance		
1	(a)		20	2 1 AO1.1 1 AO2.3a	<b>M1</b> for $D = \frac{M}{V}$ soi	Can be implied by an answer of 2	
	(b)		8 <sup>1</sup> / <sub>7</sub> or 8.14[]	4 2 AO1.3b 2 AO3.1d	M1 for 15 or 105 $\div$ 7 And  M2 for $\frac{180+105}{their(20+15)}$ or $\frac{18+10.5}{their}$ Or M1 for some attempt to find $\frac{total\ mass}{total\ volume}$		
2	(a)	(i)	x > 3	<b>3</b> 3 AO1.3a	<b>M1</b> for 4 <i>x</i> <b>soi M1</b> for 12 <b>soi</b>		
		(ii)	2	1 1 AO1.3a			
	(b)		[+]5 -5	2 2 AO1.3a	<b>M1</b> for $x^2 = 25$ If zero scored <b>SC1</b> for 5 seen as answer		
	(c)		[x =] 2 [y =] -1	<b>3</b> 3 AO1.3b	<ul><li>M1 for eliminating one variable</li><li>M1 for correct substitution of their x or</li></ul>		
3	(a)	(i)	11 13 17	<b>2</b> 2 AO1.3a	B1 for any two correct		

#### J560/06 Mark Scheme June 20XX

Q	uesti	on	Answer		Part marks and guidance		
		(ii)	Any multiple of 11 and its result e.g. 11th term is 121 = 11 <sup>2</sup>	2 1 AO1.3a 1 AO2.4a	Accept any correct argument  B1 at least two more evaluated terms		
	(b)		[Correct] e.g. 9 = (1, 3, 9) or 25 = (1, 5, 25) or 49 = (1, 7, 49) [Not correct] e.g. 1 = (1) or 81 = (1, 3, 9, 27, 81)	2 2 AO2.4a	B1 for each	Factors given must be correct for each number given for <b>B1</b>	
	(c)		36 and 72	4 2 AO1.3a 2 AO3.1b	B1 for common factors of 288 and 360 found, e.g. 2, 3, 6, 8, 9, 12, 18, 24, 36, 72 and B1 for common multiples of 4 and 6 found, e.g. 12, 24, 36, 48, 60, 72, 84, 96 and B1 for 36 or 72		
4	(a)		(Account) A (by) 103[p]	5 3 AO1.3b 1 AO3.1d 1 AO3.3	B2 for 10 927.27 and B2 for 10 926.24 or B1 for 10 400 or 10 712 If zero scored M1 for 1.03 <sup>3</sup> oe used M1 for 1.04, 1.03 and 1.02 used oe		
	(b)		He may not want to leave it there for 3 years	<b>1</b> 1 AO2.3a	Accept any valid reason		

Q	uesti	on	Answer	Marks	Part marks and guidance
5	(a)		120 to 180	3 1 AO1.3a 1 AO2.1b 1 AO3.1c	M1 for proportion of left-handed between $\frac{1}{7}$ and $\frac{1}{10}$ M1 for their '1250' × their proportion
	(b)		Correct explanation for <i>their</i> answer, e.g. 'underestimate because I rounded to 3 out of 30' <b>oe</b> or 'overestimate because I rounded to 4 out of 28' <b>oe</b> or 'Not possible to tell because we only have a small sample' <b>oe</b>	1 1 AO3.4b	FT from their (a)
	(c)		'He has assumed that the populations of the two schools have approximately the same proportion of left-handers.' <b>oe</b> Correct explanation for <i>their</i> decision, 'Yes. This is a bigger sample so it should give a more reliable estimate.' <b>oe</b> or 'No. The two samples are from different populations, so we can't use Vid's class to infer properties of Lei's school.' <b>oe</b>	2 1 AO2.5a 1 AO3.5	B1 for identification of assumption B1 for correct explanation for <i>their</i> decision
6	(a)	(i)	[Using the scatter diagram] the points slope down/negative correlation	<b>1</b> 1 AO2.1a	
		(ii)	[Using diagrams 1 and 2] 15/24 males have less than 10 so more than half underestimate, 10/16 females have more than 10 so more than half over-estimate	2 2 AO2.1a	B1 for 15/24 males estimate less than 10 seconds B1 for 10/16 females estimate more than 10 seconds

Q	Question		Answer	Marks	Part marks and guidance		
	(b)		No; it is a very small sample, so it doesn't represent the population very well	2 1 AO2.1a 1 AO3.4a	B1 for any relevant comment, e.g. small sample, more men than women, John's work may involve estimating time so the sample is biased, etc. B1 for "No"		
7			$\left(64^{\frac{1}{3}}\right)^2$ = $4^2$ = 16	2 2 AO2.2	<b>B1</b> for $(64^{\frac{1}{3}})^2$ , $4^2$ or $\sqrt[3]{4096}$ <b>oe</b>	Condone $(64^2)^{\frac{1}{3}}$ and $(4096)^{\frac{1}{3}}$ for <b>B1</b>	
8	(a)		x, $x + 1$ , $x + 2$ , $x + 3x + (x + 1) + (x + 2) + (x + 3)$ or $4x + 62(x + 3)$	1 1 1 3 AO2.4b	accept correct alternatives		
	(b)		e.g. 1 + 2 + 3 + 4 4x + 6 is not a multiple of 4	1 1 2 AO2.4a	Allow e.g. 1 + 2 + 3 + 4 = 10 is not a multiple of 4		
9			Alexander = 120 (minutes) Reiner = 180 (minutes) Wim = 90 (minutes)	4 2 AO1.3b 1 AO3.1d 1 AO3.3	M1 for any two correct expressions, e.g $r = 2w$ , $a = w + 30$ , $a + r + w = 390$ M1 for equating one variable, e.g. $w + 30 + 2w + w = 390$ oe A1 for solving for one variable, e.g. $w = 90$ oe		
10	(a)		7.1 to 7.2	2 2 AO1.3b	<b>M1</b> for (47 – 4) ÷ (8 – 2), allow one error		

#### J560/06 Mark Scheme June 20XX

Q	Question		Answer	Marks	Part marks and guidance		
	(b)		7.5 to 8.5	4 1 AO1.3a 2 AO2.1b 1 AO2.3a	M1 for an attempt to draw a tangent drawn at 6 and M2 for their distance ÷ their time e.g. (40 – 2) ÷ (8 – 3) with a time gap of at least two seconds or M1 for an inaccurate attempt at distance ÷ time (FT their tangent)	Accuracy ±1 mm	
	(c)		Agreement, with correct reasoning	2 1 AO2.3a 1 AO3.4b	<b>B1</b> for agreement, with partial reasoning		
11	(a)		L N 24% 64% 12%	3 1 AO2.3a 2 AO2.3b	B1 for 24% in L and B1 for 12% in N and M1 for 100 – (their '12' + their '24') in overlap	Condone universal set missing	
	(b)	(i)	$\frac{64}{88}$ <b>oe</b>	2 2 AO1.3a	<b>M1</b> for 64 or 88	FT their Venn diagram	
		(ii)	$\frac{24}{36}$ <b>oe</b>	2 2 AO1.3a	<b>M1</b> for 24 or 36	FT their Venn diagram	

Qu	estion	Answer	Marks	Part marks and guidance		
12		The area scale factor is $\frac{80}{180} = \frac{4}{9}$ [So the length scale factor is $\sqrt{\frac{4}{9}} = \frac{2}{3}$ ] and the volume scale factor is $\left(\frac{2}{3}\right)^3 = \frac{8}{27}$ So the volume of B is $810 \times \frac{8}{27} = 240$	5 1 AO1.3b 4 AO2.2	M1 for finding area scale factor and M1 for square root of area scale factor soi and M1 for cubing length scale factor and M1 for 810 × their volume scale factor	Allow any equivalent argument, for example by ratios	
13		9.2(0)	5 3 AO1.3b 2 AO3.1b	M1 for $\frac{6.3}{\sin 33}$ A1 for 11.567() soi M1 dep *for evidence of cosine rule used M1 for their '11.6' <sup>2</sup> + 8.4 <sup>2</sup> - 2 × their '11.6' × 8.4 × cos 52	rot to 3 or more sf *Dep on 1st M1 84.7() seen implies 4	
14		2	3 1 AO1.3a 2 AO3.1b	M1 for any correct $\frac{\text{change in } y}{\text{change in } x}$ M1 for $\frac{s-q}{r-p} = \frac{4}{2}$ If zero scored SC1 for $\frac{\text{change in } x}{\text{change in } y} = \frac{1}{2}$		

Question		on	Answer	Marks	Part marks and guidance		
15			Correct solutions, e.g. $ \frac{1}{4} = \frac{1}{6} + \frac{1}{12} $ $ \frac{1}{5} = \frac{1}{6} + \frac{1}{30} $ $ \frac{1}{6} = \frac{1}{9} + \frac{1}{18} $	3 1 AO1.1 2 AO3.1a	B1 for each Allow any correct example, e.g. $ \frac{1}{4} = \frac{1}{5} + \frac{1}{20} $ $ \frac{1}{6} = \frac{1}{7} + \frac{1}{42} $		
16	(a)	(i)	70.71[0678]	3 1 AO1.1 2 AO3.1a	M2 for $8 \times \frac{1}{2} \times 5 \times 5 \times \sin 45$ or M1 for $\frac{1}{2} \times 5 \times 5 \times \sin 45$		
		(ii)	85 – 85.4	5 2 AO1.3b 3 AO3.1b	<b>M4</b> for $(2 \times 5 \cos 22.5)^2$ or $(2 \times 5 \sin 67.5)^2$ or <b>M3</b> for $2 \times 5 \cos 22.5$ or $2 \times 5 \sin 67.5$ or <b>M2</b> for $5 \cos 22.5$ or $5 \sin 67.5$ or <b>M1</b> for $\cos 22.5 = \frac{x}{5}$ or $\sin 67.5 = \frac{x}{5}$	9.238 4.619	
	(b)		64 : 1 or 1 : <del>1</del> 64	<b>2</b> 2 AO3.2	<b>M1</b> for making the link to, and using, enlargement eg $(\frac{1}{8})^2$ or $8^2$ <b>soi</b>		

Question	Answer	Marks	Part marks and guidance	
17	$-\frac{1}{6}$ with working shown including explanation for discounting $w = -3$	6 1 AO1.3b 1 AO2.4a 4 AO3.1b	<b>B1</b> for $x^2 = (w + 1)$ <b>M1</b> for $y = 6(their x^2)^2 + 7(their x^2)$ <b>M1</b> for their $y = 10$ and make $= 0$ <b>M1</b> for solving a three term quad with $a \ne 1$ <b>B1</b> for discounting a value of $w$ less than -1	$w = -\frac{1}{6}$ and -3 <b>OR</b> $w = -3$ implies 5 marks

### Assessment Objectives (AO) Grid

Question	AO1	AO2	AO3	Total
1(a)	1	1		2
1(b)	2		2	4
2(a)(i)	3			3
2(a)(ii)	1			1
2(b)	2			2
2(c)	3			3
3(a)(i)	2			2
3(a)(ii)	1	1		2
3(b)		2		2
3(c)	2		2	4
4(a)	3		2	5
4(b)		1		1
5(a)	1	1	1	3
5(b)			1	1
5(c)		1	1	2
6(a)(i)		1		1
6(a)(ii)		2		2
6(b)		1	1	2
7		2		2
8(a)		3		3
8(b)		2		2
9	2		2	4
10(a)	2			2
10(b)	1	3		4
10(c)		1	1	2
11(a)		3		3
11(b)(i)	2			2
11(b)(ii)	2			2
12	1	4		5
13	3		2	5
14	1		2	3
15	1		2	3
16(a)(i)	1		2	3
16(a)(ii)	2		3	5
16(b)			2	2
17	1	1	4	6
Totals	40	30	30	100