Mark Scheme (Results)

November 2021

Pearson Edexcel GCSE
In Mathematics (1MA1)
Foundation (Non-Calculator) Paper 1F

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General marking guidance

These notes offer general guidance, but the specific notes for examiners appertaining to individual questions take precedence.

1   All candidates must receive the same treatment. Examiners must mark the last candidate in exactly the same way as they mark the first. Where some judgement is required, mark schemes will provide the principles by which marks will be awarded; exemplification/indicative content will not be exhaustive. When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the response should be sent to review.

2   All the marks on the mark scheme are designed to be awarded; mark schemes should be applied positively. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme. If there is a wrong answer (or no answer) indicated on the answer line always check the working in the body of the script (and on any diagrams), and award any marks appropriate from the mark scheme.

   Questions where working is not required: In general, the correct answer should be given full marks.
   Questions that specifically require working: In general, candidates who do not show working on this type of question will get no marks – full details will be given in the mark scheme for each individual question.

3   **Crossed out work**
   This should be marked **unless** the candidate has replaced it with
   an alternative response.

4   **Choice of method**
   If there is a choice of methods shown, mark the method that leads to the answer given on the answer line.
   If no answer appears on the answer line, mark both methods **then award the lower number of marks.**

5   **Incorrect method**
   If it is clear from the working that the "correct" answer has been obtained from incorrect working, award 0 marks. Send the response to review for your Team Leader to check.

6   **Follow through marks**
   Follow through marks which involve a single stage calculation can be awarded without working as you can check the answer, but if ambiguous do not award.
   Follow through marks which involve more than one stage of calculation can only be awarded on sight of the relevant working, even if it appears obvious that there is only one way you could get the answer given.

7   Ignoring subsequent work
It is appropriate to ignore subsequent work when the additional work does not change the answer in a way that is inappropriate for the question or its context. (eg an incorrectly cancelled fraction when the unsimplified fraction would gain full marks).
It is not appropriate to ignore subsequent work when the additional work essentially makes the answer incorrect (eg. incorrect algebraic simplification).

8   Probability
Probability answers must be given as a fraction, percentage or decimal. If a candidate gives a decimal equivalent to a probability, this should be written to at least 2 decimal places (unless tenths).
Incorrect notation should lose the accuracy marks, but be awarded any implied method marks.
If a probability fraction is given then cancelled incorrectly, ignore the incorrectly cancelled answer.

9   Linear equations
Unless indicated otherwise in the mark scheme, full marks can be gained if the solution alone is given on the answer line, or otherwise unambiguously identified in working (without contradiction elsewhere). Where the correct solution only is shown substituted, but not identified as the solution, the accuracy mark is lost but any method marks can be awarded (embedded answers).

10   Range of answers
Unless otherwise stated, when an answer is given as a range (eg 3.5 – 4.2) then this is inclusive of the end points (eg 3.5, 4.2) and all numbers within the range

11   Number in brackets after a calculation
Where there is a number in brackets after a calculation eg 2 × 6 (=12) then the mark can be awarded **either** for the correct method, implied by the calculation **or** for the correct answer to the calculation.

12   Use of inverted commas
Some numbers in the mark scheme will appear inside inverted commas eg "12" × 50 ; the number in inverted commas cannot be any number – it must come from a correct method or process but the candidate may make an arithmetic error in their working.

13   Word in square brackets
Where a word is used in square brackets eg [area] × 1.5 : the value used for [area] does **not** have to come from a correct method or process but is the value that the candidate believes is the area. If there are any constraints on the value that can be used, details will be given in the mark scheme.

14   Misread
If a candidate misreads a number from the question. eg uses 252 instead of 255; method or process marks may be awarded provided the question has not been simplified. Examiners should send any instance of a suspected misread to review.

Guidance on the use of abbreviations within this mark scheme

M   method mark awarded for a correct method or partial method

P   process mark awarded for a correct process as part of a problem solving question

A   accuracy mark (awarded after a correct method or process; if no method or process is seen then full marks for the question are implied but see individual mark schemes for more details)

C   communication mark awarded for a fully correct statement(s) with no contradiction or ambiguity

B   unconditional accuracy mark (no method needed)

oe   or equivalent

cao   correct answer only

ft   follow through (when appropriate as per mark scheme)

sc   special case

dep   dependent (on a previous mark)

indep   independent

awrt   answer which rounds to

isw   ignore subsequent working

Paper: 1MA1/1F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
1	30	B1	cao	
2	–10, –7, –2, 0, 1, 8	B1	Accept the reverse order, eg 8, 1, 0, –2, –7, –10	
3	0.09	B1	cao	Accept an answer of .09
4	330	B1	cao	
5	49	B1	cao	
6 (a)	Trapezium	B1	for trapezium	Accept incorrect spelling provided intention is clear
(b)	Cylinder	B1	for cylinder	Accept incorrect spelling provided intention is clear
7	14	M1	for 42 ÷ 3	
		A1	cao	
8	Error identified	C1	error correctly identified **Acceptable examples** bar for brown is too high 16 should be 15 brown needs to be one less brown is wrong the graph does not match the table **Not acceptable examples** no title the gaps between the bars are wrong	

Question		Answer	Mark	Mark scheme	Additional guidance
9		No with correct figures	P1	for 1.20 + 0.70 + 2.30 + 2.30 (= 6.5(0)) **or** for adding 3 correct costs **or** for 2 correct costs plus change **or** for 10 – 2 correct costs	Could work in £ or p for P marks Accept 2.30 + 2.30 (= 4.60) as 2 costs
			P1	for a complete correct method, eg 10 – "6.50" **or** 10 – 1.20 – 0.70 – 2.30 – 2.30 (=3.50) **or** 1.20 + 0.70 + 2.30 + 2.30 + 3.30 (=9.80)	Accept absence of "0" in pence column
			A1	for No with correct figures, eg 3.5(0) **or** 9.8(0)	
10		7	P1	for process to find temperature on Wednesday, eg 5 – 10 + 3 (= –2) **or** –10 + 3 **or** 10 – 3	Be aware of correct use of a number line
			A1	for 7, accept –7	
11	(a)	16	B1	cao	
	(b)	12	M1	for 22 **or** 10 **or** (11 – 5) × 2 oe **or** 1.5 × 8 oe	If the scale is misread in part (a), allow ft marks in parts (b) and (c) for all marks provided consistently used.
			A1	cao	
	(c)	Pictogram	C3	for Thursday = 8 drawn oe **and** Friday = 24 drawn oe	Some interpretation of shapes will be needed
			(C2	for Thursday = 8 drawn oe **or** for Friday = 24 drawn oe **or** Thursday = 8 **and** Friday = 24 **or** for Thursday = 24 drawn oe **and** Friday= 8 drawn oe)	
			(C1	for 32 ÷ 4 (= 8) **or** 32 ÷ 4 × 3 (= 24) **or** 32 ÷ 8 **or** for a total of 32 drawn for Thursday and Friday)	

| Question	Answer	Mark	Mark scheme	Additional guidance
12	Yes, supported by correct working	P1	for 36 : 48 oe **OR** $\frac{36}{84}$ oe **or** $\frac{48}{84}$ oe	Relating to drama group 1
		P1	for $\frac{4}{7}$ **or** 3 : 4 oe (for group 2) **OR** ($\frac{36}{84} = \frac{3}{7}$) **or** ($\frac{48}{84} = \frac{4}{7}$) or $84 \times 3 \div 7$ (= 36 boys) **or** $84 \times 4 \div 7$ (= 48 girls) or $N \times 3 \div 7$ and $N \times 4 \div 7$	Relating to drama group 2 N can be any number (other than 84) of students in the 2nd group
		A1	for Yes with both ratios 3 : 4 oe **or** for a correct pair of fractions and stating they are equivalent.	Both equivalent forms of the ratios (fractions) must be the same "Yes" may be implied from working
13 (a)	Explanation	C1	for explanation **Acceptable examples** the sequence is going +1, +2 so the next term is +3 1 +1= 2, 2 +2= 4, 4 +3= 7 add the current term position to the term to get the next term add the two previous terms and add 1 **Not acceptable examples** you add 1 each time the number goes up by 3 7 is wrong it should be 8 because you double each time	The pattern may be just seen on the sequence given
(b)	36	M1	for finding the next term of 10 + 5 (=15) **or** for $\frac{1}{2} \times 8 \times (8 + 1)$ oe	
		A1	cao	
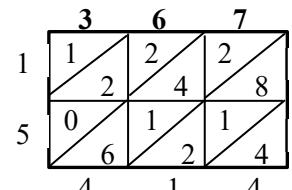
Question	Answer	Mark	Mark scheme	Additional guidance
14	3.3(0)	P1	for a process to find cost of 1 kg of carrots, eg 1.80 ÷ 3 (= 0.60)	Could work in £ or p for P marks Condone incorrect money notation
		P1	for a start to a process to find cost of 1kg of potatoes, eg 3.45 – 2 × "0.60" (= 2.25) **or** (1.80 + 3.45) ÷ 5 (= 1.05) **OR** for a process to find the cost of 4 kg of carrots, eg "0.60" × 4 (= 2.40)	1 kg of potatoes = (£)0.45 or 45p
		P1	(dep on P2) for a complete process to find the cost of 4 kg of carrots **and** the cost of 2 kg of potatoes, eg "0.60" × 4 (= 2.40) **and** ("2.25" ÷ 5) × 2 (= 0.90) **or** "0.60" × 4 (= 2.40) **and** ("1.05 – "0.60") × 2 (= 0.90)	
		A1	cao	Award 0 marks for a correct answer with no supportive working.
15 (a)	$2a + 2d$	B1	cao	Accept $2 × a + 2 × d$
(b)	$y(6y - 5)$	B1	cao	Accept $y × (6y - 5)$
(c)	11	M1	for isolating x terms, eg $4x = 37 + 7$ or $4x = 44$ **or** for $x - \frac{7}{4} = \frac{37}{4}$ **or** for $37 + 7 = 44$ followed by "44" ÷ 4 (= 11)	
		A1	cao	
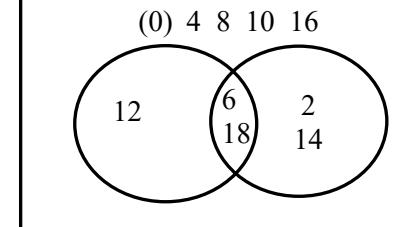
Question		Answer	Mark	Mark scheme	Additional guidance
16	(a)	Explanation	C1	for explanation, eg *AB* cannot be zero (cm) **or** shows *AB* to be zero, eg $4 \times 0.5 - 2 = 0$	Accept say '*AB* would then be 0'
	(b)	2.5	P1	for a correct expression for *AD*, eg $3(4x - 2)$ **or** $12x - 6$	May be seen on diagram
				OR $2(3AB + AB) = 64$ oe **or** $3AB + AB = 32$ oe **or** $AB = 8$	
				OR for an equation with mixed variables, eg. $6AB + 2(4x - 2) = 64$	
			P1	for forming a correct equation in *x*, eg $4x - 2 + 4x - 2 + 3(4x - 2) + 3(4x - 2) = 64$ **or** $4x - 2 = 8$ **or** $4x - 2 + 3(4x - 2) = 32$	
			A1	cao	

Question	Answer	Mark	Mark scheme	Additional guidance
17 (a)	42	P1	for a correct start to the process by finding the number of batches for one ingredient, eg 500 ÷ 125 (= 4) **or** 700 ÷ 200 (= 3.5 or 3) **or** 250 ÷ 50 (= 5) **OR** for a correct start to building up number of batches of **all** ingredients, eg. (24 biscuits or 2 batches =) 250 (butter), 400 (flour) and 100 (sugar) **OR** for a start to the process by finding the amount of one ingredient needed to make 1 biscuit, eg 125 ÷ 12 (= $10\frac{5}{12}$) **or** 200 ÷ 12 (= $16\frac{8}{12}$) **or** 50 ÷ 12 (= $4\frac{2}{12}$)	
		P1	for a correct process to find the number of batches for all 3 ingredients, eg 500 ÷ 125 (= 4) **and** 700 ÷ 200 (= 3.5 or 3) **and** 250 ÷ 50 (= 5) **OR** for a build-up process reaching a point where there is not enough of one ingredient, eg. (36 biscuits or 3 batches =) 375 (butter), 600 (flour) and 150 (sugar) **or** (48 biscuits or 4 batches =) 500 (butter), 800 (flour) and 200 (sugar) **OR** for a correct process to find the amount of each ingredient needed to make 1 biscuit, eg 125 ÷ 12 (= $10\frac{5}{12}$) **and** 200 ÷ 12 (= $16\frac{8}{12}$) **and** 50 ÷ 12 (= $4\frac{2}{12}$)	

Question	Answer	Mark	Mark scheme	Additional guidance
		P1	(dep on P2) for a process to find the number of biscuits, eg "4" × 12 (= 48) **or** "3.5" × 12 (= 42) **or** "3" × 12 (= 36) **or** "5" × 12 (= 60) **OR** (dep on P2) for (700 – 600) ÷ 200 × 12 (= 6) or "3" × 12 (= 36) **OR** (dep on P2) for a process to find the number of biscuits, eg 500 ÷ "$10\frac{5}{12}$" (= 48) **or** 700 ÷ "$16\frac{8}{12}$" (= 42) **or** 250 ÷ "$4\frac{2}{12}$" (= 60)	
		A1	cao	
(b)	Explanation	C1	(dep on P3) for a correct explanation, ft (a) for the critical ingredient identified **Acceptable examples** No, since flour is the critical value No, since flour gives you the least number of batches No since she needs more flour to make more biscuits. **Not acceptable examples** Yes … No (no reason given) No, since we would need more of the other ingredients too	

Question	Answer	Mark	Mark scheme	Additional guidance
18	Line Drawn	B3	for a correct line drawn between $x = -2$ and $x = 3$	Accept freehand line drawn
		(B2	for a correct straight-line segment through at least 3 of $(-2, -6), (-1, -4), (0, -2), (1, 0), (2, 2), (3, 4)$	Ignore any incorrect points
			or for all of the above points plotted but not joined	Table of values <table><tr><td>x</td><td>–2</td><td>–1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>y</td><td>–6</td><td>-4</td><td>–2</td><td>0</td><td>2</td><td>4</td></tr></table>
			or for a single line drawn with a positive gradient through $(0, -2)$ **and** clear intention to use a gradient of 2, eg a line through $(0, -2)$ and $(0.5, 0)$	
		(B1	for at least 2 correct points stated or plotted	Ignore any incorrect points Coordinates may be in a table or working
			or a single line drawn with positive gradient through $(0, -2)$	Do not accept $y = -2$ drawn
			or a single line with gradient 2)	
19	30	M1	for $80 - 56$ (= 24) **or** for $\dfrac{56}{80} \times 100$ (=70) **or** (loss of) 10% = 80 ÷ 10 (= 8)	
		M1	for a complete method, eg "24" ÷ 80 × 100 **or** 100 – "70" **or** (80 – 56) ÷ "8" × 10	
		A1	cao	

Question	Answer	Mark	Mark scheme	Additional guidance
20 (a)	15.414	M1	for a complete method with relative place value correct including an intention to add all the appropriate elements of the calculation eg, 2 lines of the 1st method, internal numbers of grids, or complete structure shown of partitioning methods.	14680 734 15414 |	300	60	7 | |----|-----|-----|----| | 40 | 12000 | 2400 | 280 | | 2 | 600 | 120 | 14 | 12000 + 2400 + 280 + 600 + 120 + 14 = 15414
		A1	for digits 15414	
		A1	(ft) dep on M1 for correct placement of the decimal point into their final answer	
(b)	37.4	M1	for a start to a method, eg 598.4 ÷ 16 (or 59.84 ÷ 1.6) = 3 (as a first digit)	A start to a repeated subtraction method or build-up method is acceptable if a correct first digit of 3 is found
		A1	for digits 374	
		A1	(ft) dep on M1 for correct placement of the decimal point into their final answer	

Question	Answer	Mark	Mark scheme	Additional guidance
21	Venn Diagram	C1	for one correct region	
		C1	for two correct regions	
		C1	for all regions correct	Ignore all entries except the region you are marking for each mark
22	$1\dfrac{8}{15}$	M2	for a complete method, eg $4 - 2 + \dfrac{3}{15} - \dfrac{10}{15}$ condoning error with one numerator **or** for $\dfrac{21}{5} - \dfrac{8}{3} = \dfrac{63}{15} - \dfrac{40}{15} (= \dfrac{23}{15})$ with no more than one error	
		(M1	for finding two fractions with a correct common denominator, with at least one correct corresponding numerator, eg $\dfrac{3}{15}, \dfrac{10}{15}$ **or** for converting both to improper fractions, eg $\dfrac{21}{5}, \dfrac{8}{3}$)	At least one improper fraction must be correct
		A1	$1\dfrac{8}{15}$ oe	Any equivalents must be a mixed number

For question 21 additional guidance:

(0) 4 8 10 16

12 | 6 18 | 2 14

Question	Answer	Mark	Mark scheme	Additional guidance
23	Rahim (supported)	P1	for start to the process to find 20% for Tamara, eg 220000 × 0.2 oe (= 44000) **or** 30% for Rahim, eg 160000 × 0.3 oe (= 48000) **OR** for 1 – 0.2 (= 0.8) **or** 100 – 20 (= 80) **or** 1 + 0.3 (= 1.3) **or** 100 + 30 (= 130)	Build up processes are acceptable but must be complete and correct
		P1	for a complete process to find at least one new value, eg 220000 – "44000" (= 176 000) **or** 160000 + "48000" (= 208000) **OR** 220000 × "0.8" (=176000) **or** 160000 × "1.3" (=208000)	
		A1	for one correct value, 176 000 or 208 000	
		C1	for correct conclusion supported by correct figures eg Rahim, 176 000 and 208 000	Award 0 marks for a correct answer with no supportive working.
24	33	P1	for relating 24 to 8 parts, **or** (1 part =) 24 ÷ 8 (= 3) **or** 15 – 7 (= 8) **or** starts to use a build-up method, eg (8 :) 14 : 30	8 parts = 24
		P1	for (15 – 4) **and** (24 ÷ 8) **or** 15 × 3 (= 45) **and** 4 × 3 (= 12) **or** for 12 (: 21) : 45	
		A1	cao	

Question	Answer	Mark	Mark scheme	Additional guidance
25	12	P1	for a process to find the area of cross section, eg $750 \div 25 \ (=30)$ oe **or** $\frac{1}{2} \times 5 \times h$ oe	May use any letter for h or may use ?
		P1	for a correct equation in h, eg $750 \div 25 = \frac{1}{2} \times 5 \times h$ oe **or** $\frac{1}{2} \times 5 \times h \times 25 = 750$ oe **or** for a complete process to find h, eg. $\frac{750}{25} \times \frac{2}{5}$ oe **or** "30" $\times 2 \div 5$	
		A1	cao SC B1 for answer of 6 if P0 scored	
26	Shown	M1	for a correct expression for the area of one face of the cube, eg. x^2 **or** a correct expression for the surface area of the cube, eg $6 \times x^2$	No marks for $x = \sqrt{6\pi}$ without any working.
		M1	for a correct expression for the surface area of the sphere, eg $4 \times \pi \times 3^2 \ (= 36\pi)$	
		M1	for forming a suitable equation, eg $6 \times x^2 = 4 \times \pi \times 3^2$ **or** $6x^2 =$ "36π"	$6 \times x^2 = 4 \times \pi \times 3^2$ $x^2 = 36\pi \div 6$
		A1	for completing the method to $x = \sqrt{6\pi}$ or $k = 6$	$x = \sqrt{6\pi}$
27	7.15 and 7.25	B1	for 7.15 as the lower bound	
		B1	for 7.25 as the upper bound	Accept $7.24\dot{9}$ oe or $7.2499\ldots$ oe
28 (i)	-4	B1	cao	
(ii)	(0, 3)	B1	cao	

Modifications to the mark scheme for Modified Large Print (MLP) papers: 1MA1 1F

Only mark scheme amendments are shown where the enlargement or modification of the paper requires a change in the mark scheme.

The following tolerances should be accepted on marking MLP papers, unless otherwise stated below:
Angles: ±5º
Measurements of length: ±5 mm

PAPER: 1MA1_1F			
Question		**Modification**	**Mark scheme notes**
2		Wording added 'Write the following six numbers…'	Standard mark scheme
6	(a)	Wording added 'Look at the diagram for Question 6(a) in the Diagram Booklet. It shows a quadrilateral labelled *ABCD*.' Wording added '*AB* is parallel to *DC*.'; Wording 'this…' removed and replaced with 'the…' Diagram enlarged. Diagram labelled as *ABCD*.	Standard mark scheme
6	(b)	Wording added 'Look at the diagram for Question 6(b) in the Diagram Booklet. You may be provided with a model. They show a 3-D shape.' Wording 'this…' removed and replaced with 'the..' Diagram enlarged. Dashed line made longer and thicker. Model may be provided.	Standard mark scheme
8		Wording 'Look at the diagram for Question 8 in the Diagram Booklet. It shows a bar chart.' Wording 'below…' removed and replaced with 'in the Diagram Booklet…' Table and diagram enlarged. Axes labels moved to the left of the horizontal axis and above the vertical axis. Shading changed to dotty shading. Open headed arrows. Wording 'this…' removed and replaced with 'the..'	Standard mark scheme

PAPER: 1MA1_1F			
Question		**Modification**	**Mark scheme notes**
11		Wording 'Look at the diagram for Question 11 in the Diagram Booklet.' Wording 'The pictogram shows…' removed and replaced with 'It is an incomplete pictogram which shows information….'; Diagram enlarged. Key moved above the diagram. Part (c) Wording added 'Complete the pictogram in the Diagram Booklet…'; for Braille provide a spare diagram and drawing film.	Standard mark scheme
13	(a)	Wording added 'A number sequence starts with the three numbers shown below.'	Standard mark scheme
13	(b)	The wording 'Here are…' removed and replaced with 'Below are…' Braille: "Here are" removed. Sentence changed to: "The first four terms of the sequence of triangle numbers are given below."	Standard mark scheme
15	(a)	*a* changed to *p*. *d* changed to *q*.	Standard mark scheme except for the letter changes indicated to give $2p + 2q$
16		Wording added 'Look at the diagram for Question 16 in the Diagram Booklet. It shows a kite *ABCD*.' And for Braille: "The diagram shows a kite, *ABCD*." Wording '*ABCD* is a kite' removed. Diagram enlarged. Part (b): Wording added 'Find the value of *x*, when $AD = 3AB$. The kite has a perimeter of 64 cm.'	Standard mark scheme
17		Wording added 'Look at the information for Question 17 in the Diagram Booklet. It shows a recipe.' Wording 'this recipe' removed and replaced with 'the recipe in the Diagram Booklet.' Information enlarged. Tracking lines added.	Standard mark scheme

PAPER: 1MA1_1F		
Question	**Modification**	**Mark scheme notes**
18	Wording added 'Look at the diagram for Question 18 in the Diagram Booklet. It shows a grid.' Wording 'below' removed. Diagram enlarged. Open headed arrows. Grid cut at $y=6$. Axes labels moved to the right of the horizontal axis and above the vertical axis. Braille: x y Words added: 'You may use the table if you wish…' -2 (i) Answer lines added: 'Ans: (i) __ (ii) __ (iii) __ (iv) __ (v) __ (vi) __' -1 (ii) Diagram enlarged to a 2 cm grid cut at $y=6$. 0 (iii) Spare diagram provided. 14 round bumpons and Wikki Stix. 1 (iv) 2 (v) 3 (vi)	Standard mark scheme
21	Wording added 'Look at the diagram for Question 21 in the Diagram Booklet. It shows an incomplete Venn diagram.' Wording added 'in the Diagram Booklet…'. Diagram enlarged. Labels 'Set A' and 'Set B' moved above the circles. Braille: In the diagram, add (i) for universal set, (ii) for Set A, (iii) for the overlap & (iv) for Set **B**. Then add 'Ans: (i) __ (ii) __ (iii) __ (iv) __'	Standard mark scheme
24	Wording added 'Look at the information for Question 24 in the Diagram Booklet.' Information enlarged.	Standard mark scheme

Question		Modification	Mark scheme notes
25		Wording 'Look at Diagram 1 and Diagram 2 for Question 25 in the Diagram Booklet. You may be provided with a model.' The triangle labelled *ABC*. Diagram 1 to show the 3D prism. Diagram 2 to show the cross-section *ABC*. Wording added 'Diagram 1 and the model show a prism'. Wording added 'The cross section of the prism shown in Diagram 2 is a right-angled triangle labelled *ABC*.' Wording added 'Angle *ABC* is a right angle. The base of the triangle, *BC* = 5 cm.' Diagram enlarged. Right angle made more obvious. Dashed lines made longer and thicker. Model could be provided candidates.	Standard mark scheme
26		Model of the cube and sphere provided for all candidates. Wording added 'Look at Diagram 1, Diagram 2 and the formula for Question 26 in the Diagram Booklet. You may be provided with two models.' Wording 'The diagram shows…' removed and replaced with 'Diagram 1 and Model A show a cube with edges of length *x* cm.' Wording added 'Diagram 2 and Model B show a sphere of radius 3 cm.' Diagrams enlarged and stacked vertically. Dashed lines made longer and thicker. The '3 cm' label and arrow moved to the left on the sphere diagram. Formula moved above the surface area diagram. Open headed arrows.	Standard mark scheme