

MARKING SCHEME

JUNIOR CERTIFICATE EXAMINATION 2004 MATHEMATICS FOUNDATION LEVEL

GENERAL GUIDELINES FOR EXAMINERS

- 1. Penalties of three types are applied to candidates' work as follows:
 - Blunders mathematical errors/omissions (-3)
 - Slips numerical errors (-1)
 - Misreadings (provided task is not oversimplified) (-1).

Frequently occurring errors to which these penalties must be applied are listed in the scheme. They are labelled as B1, B2, B3,...., S1, S2, S3,..., M1, M2, etc. Note that these lists are not exhaustive.

- 2. When awarding attempt marks, e.g. Att(3), it is essential to note that
 - any correct relevant step in a part of a question merits *at least* the attempt mark for that part
 - if deductions result in a mark which is lower than the attempt mark, then the attempt mark must be awarded
 - a mark between zero and the attempt mark is never awarded.
- 3. Worthless work is awarded zero marks. Some examples of such work are listed in the scheme and they are labelled as W1, W2,....etc.
- 4. The *same* error in the *same* section of a question is penalised *once* only.
- 5. Special notes relating to the marking of a particular part of a question are indicated by an asterisk. These notes immediately follow the box containing the relevant solution.
- 6. Particular cases, verifications and answers derived from diagrams (unless requested) qualify for attempt marks only.
- 7. The phrase "and stops" means that no more work is shown by the candidate.

| | QUESTION 1 | |
|--|-------------------|-----------|
| Part (a) | 10 marks | Att 4 |
| Part (b) | 20 marks | Att 8 |
| Part (c) | 20 marks | Att 8 |
| Part (a) | 10(5,5) marks | Att (2,2) |
| (a) (i) 75 + 52 | | |
| (ii) 75 - 52 | | |
| (a) | 5marks | Att 2 |
| (i) | 127 | |
| Blunders (-3) | | |
| B1 Uses incorrect operator | | |
| Slips (-1) | | |
| S1 Error in calculation (once only) |) | |
| S2 Decimal error | | |
| Misreadings (-1) | | |
| M1 Error in copying down a digit | | |
| Attempts (2 marks) | | |
| A1 Any attempt at addition | | |
| Worthless (0) | | |
| W1 Incorrect answer with no work | | |
| (a) (ii) | 5marks | Att 2 |
| (a) (ii) | 23 | |
| ⁴ If answers to (i) and (ii) interchang | - | |

* If answers to (i) and (ii) interchanged, blunder once only. Blunders (-3)
B1 Uses incorrect operator
Slips (-1)
S1 Error in calculation (once only)
S2 Decimal error
Misreadings (-1)
M1 Error in copying down a digit
Attempts (2 marks)

A1 Any attempt at subtraction

Worthless (0)

W1 Incorrect answer with no work

| Part (b) | 20(5,5,5,5) marks | Att (2,2,2,2) |
|--|------------------------|---------------|
| (i) $468 \div 6 =$ | | |
| (ii) $2314 \times 5 =$ | | |
| (iii) $\sqrt{49} =$ | | |
| (iv) 4^3 | | |
| b(i) | 5marks | Att 2 |
| (b) (i) | 78 | |
| Blunders (-3) | | |
| B1 Incorrect operator (with wo | ork) | |
| Slips (-1) | | |
| S1 Calculation error | S2 Decimal error | |
| Attempts (2 marks) A1 Any attempt at division | A2 0.01234(6÷468) | |
| Worthless (0) | A2 0.01234(0-408) | |
| W1 Incorrect answer with no w | vork. subject to A2 | |
| (b)(ii) | 5 marks | Att2 |
| (b)(ii) | 11570 | |
| Blunders (-3) | | |
| B1 Incorrect operator (with wo | ork) | |
| Slips (-1) | | |
| S1 Calculation error | S2 Decimal error | |
| Attempts (2 marks) | | |
| A1 Any attempt at multiplicati | ion. | |
| Worthless (0) | 1 | |
| W1 Incorrect answer with no w | | A 44 2 |
| (b)(iii) | <u>5 marks</u> | Att2 |
| $\frac{(b)(iii)}{D(b)}$ | 7 | |
| Blunders (-3) B1 49^2 (= 2401) with/witho | ut work | |
| Attempts (2 marks) | ut work | |
| Altempts (2 marks) Al $49^{\frac{1}{2}}$ written A2 | 24.5 with/without work | |
| Worthless (0) | | |
| W1 Incorrect answer without w | vork | |
| (b)(iv) | 5marks | Att2 |
| (b)(iv) | 64 | |
| Blunders (-3) | | |
| B1 $4 \times 3 = 12$ or 12 with/wi | thout work. | |
| Slips (-1) | | |
| S1 $4 \times 4 \times 4$ and stops. | | |
| S2 Calculation error | | |
| Attempts (2 marks) | | |
| A1 4×3 and stops | | |

| Part | (c) 20(5,5,5,5)marks | Att (2,2,2,2) |
|-------|---|---------------|
| (i) | Write down the nearest whole number to $7 \cdot 8$. | Answer |
| (ii) | Write down the nearest whole number to $12 \cdot 3$. | Answer |
| (iii) | Use your answers to estimate the value of $7 \cdot 8 \times 12 \cdot 3$. | Estimate |
| (iv) | Find the exact value of $7 \cdot 8 \times 12 \cdot 3$. | Exact value |

| (c)(i)(ii) | 5,5marks | Att 2,2 |
|------------|----------|---------|
| (c)(i) | 8 | |
| (c)(ii) | 12 | |

Blunders (-3)

B1 Selects any incorrect <u>whole</u> number, other than those listed below.

Slips (-1) S1 (i) 7 (ii)13 S2 (i) 80 (ii)120 Worthless (0) W1 Rewrites (i) 7.8 (ii) 12.3

| (c)(iii) | 5 marks | Att2 |
|----------|---------|------|
| (c)(iii) | 96 | |

*Accept candidate's answers from previous parts.

*Accept 96 without work even if (i) and/or (ii) is incorrect.

*If correct answers to (i) and/or (ii) are identified in this part, award full marks retrospectively to both/either parts.

Blunders (-3)

B1 Incorrect operator, with work.

Attempts (2 marks)

A1 95.94 with/without work subject to $1^{st} *$

| (c)(iv) | 5 marks | Att2 |
|---------|---------|------|
| (c)(iv) | 95.94 | |

*If same incorrect operator used, with work, as in (iii) don't penalise again.

Blunders (-3)

B1 Incorrect operator, with work.

Slips (-1)

S1 Decimal error

S2 Error in calculation.

Attempts (2 marks)

A1 Any attempt at multiplication.

| QUESTI | ON 2 | |
|---|----------------|----------------|
| | narks | Att 3 |
| | narks narks | Att 8 Att 7 |
| Part(a) 10ma | | Att (3) |
| (a) A "take-away" meal costs $\in 6 \cdot 80$. I pay with a $\in 10$ note. How much c | | |
| | narks | Att (3) |
| \measuredangle (a) $10 - 6.80 = 6$ | €3.20 | |
| * Accept 320 (cent) Blunders (-3) B1 Correct answer with no work shown. B2 Addition instead of subtraction B3 10 - 6.80 and stops Slips (-1) S1 Arithmetic error S2 Misplaced decimal Attempts (3 marks) A1 Correct digits but incorrect decimal locati Worthless (0) W1 6.70 or any other incorrect answer with no | | |
| Part(b) 20(5,5 | 5,5,5) | Att (2,2,2,2) |
| $A = \{ 1, 2, 3, 5, 4,, 5, 4,, 5,, 5,, 5,, 5,, 6,, 6,, 6,, 6,, 7,, 7,, 8,,$ | | |

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| b(i)(ii)(iii)(iv) | 20(5,5,5,5) marks | Att (2,2,2,2) |
|-------------------|-------------------|---------------|
| b(i) | {1, 2, 5, 4} | |
| b(ii) | {2, 3, 4 } | |
| (b)(iii) | {2, 4} | |
| (b) (iv) | {1, 2, 3, 4, 5} | |

*Accept appropriate shading, but answers must be distinguishable.

Slips (-1)

S1 Each incorrect or blank entry to max –3 for each part, assuming at least one (correct) entry *Attempts (2 marks)*

A1 Incorrect entry/entries only in a given part.

| Part(| c) | 20(10,5,5)marks | | |
|-------|--------------------------|-------------------------------|-----------------------------|------------|
| (c) | An electricity bill give | ves the following details: | | |
| | | Present Reading | Previous Reading | |
| | Units | 36 551 | 35 751 | |
| Find | | | | |
| Ŕ | (i) the number of | units used | | |
| Ľ | (ii) the cost of the | electricity used if each unit | costs 10.75 cent | |
| Ŕ | (iii) the total cost w | hen VAT at 13.5% is added | to the cost of the electric | city used. |
| | | | | |

| (c)(i) | | 10 marks | Att 3 |
|---------|--------------------|--|-------|
| Æ | (c) (i) | 36551 - 35751 = 800 | |
| Blunder | rs (-3) | | |
| | dds instead of sul | $\frac{1}{2}$ by 1 | |

B2 Mathematical error in subtraction e.g. 35751 - 36551 = 1200, say

B3 Correct answer with no work

Slips (-1)

S1 Arithmetic error

S2 Decimal error

Attempts (3 marks)

A1 72302 without work

A2 36551 or 35751

Worthless (0)

W1 Any other incorrect answer without work.

| c(ii) | 5marks | Att 2 |
|-------------|---|---|
| Ø | (c) (ii) $800 \times 10.75 = 8$ | 600 or 86.00 |
| * Acc | cept candidate's answer from (i) | |
| | ders (-3) | |
| B1 | $800 \div 10.75$ and continues | |
| B2 | $10.75 \div 800$ and continues | |
| Slips | (-1) | |
| S 1 | Calculations incomplete. | |
| S2 | Error in calculations | |
| S3 | Decimal error | |
| S4 | $10.75 \times$ number other than ans (i) and continues. | |
| S5 | Correct answer with no work. | |
| Atten | npts (2marks) | |
| A1 | 10.75 or ans (i) written and stops. | |
| Wort | hless (0) | |
| W1 | Incorrect answer with no work. | |
| (c) (ii | ii) 5 marks | Att 2 |
| ø | | $\div 100 = 11 \cdot 61 \Longrightarrow 86 + 11 \cdot 61 = 97 \cdot 61$ |
| | ept candidate's answers from previous parts. | |
| | cept work/answer in cent | |
| | ders (-3) | |
| B1 | Divides by 13.5 | |
| B1 B2 | Uses 800 or 10.75 and continues | |
| B2 B3 | Fails to add 11.61. | |
| Slips | | |
| Slips Sl | 86×1.135 and stops | |
| S1 S2 | Decimal error | |
| S2 S3 | Rounds off too soon | |
| S5 S4 | No division by 100 | |
| S5 | Correct answer with no work shown | |
| | npts (2 marks) | |
| Al | 1.135 and stops | |
| A2 | Some effort at %. | |
| | hless (0) | |
| W1 | Incorrect answer with no work shown. | |
| | | |

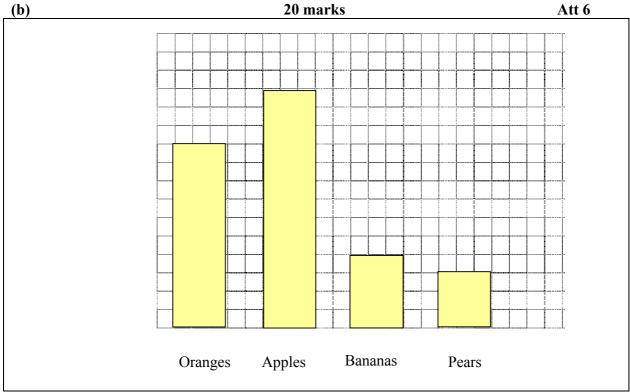
| Part (a) | 10 marks | Att 3 |
|-----------------------|---|-------|
| Part (b) | 20 marks | Att 6 |
| Part (c) | 20 marks | Att 6 |
| Part(a) | 10 marks | Att 3 |
| | mode of the following numbers 5, 6, 4, 3. | |
| (a) | 10 marks | Att 3 |
| (a) | 6 | |
| *Accept answer indica | ated | |
| Blunders (-3) | | |
| B1 Frequency tab | le constructed | |
| Attempts (3 marks) | | |
| A1 3 written | | |
| 1) Triag to find m | nean, with work | |
| AZ THES to find h | | |
| | anged in ascending/descending order | |
| | anged in ascending/descending order | |

| Part (b) | 20marks | Att 6 |
|------------|---------|-------|
| 1 41 (() | Zomarks | 1100 |

The pupils in a class were asked what their favourite fruit was. The table shows the results.

| Favourite Fruit | Oranges | Apples | Bananas | Pears |
|------------------|---------|--------|---------|-------|
| Number of pupils | 10 | 13 | 4 | 3 |

Draw a bar chart to represent the results. Use the grid to draw your bar chart.



* Tolerance: ±1box on grid (to the eye)

*Vertical or horizontal bars accepted

* Order of bars not important if they are in the correct ratio.

* 5 marks for each correctly drawn bar (*N.B.* Att <u>6</u> marks)

Blunders (-3)

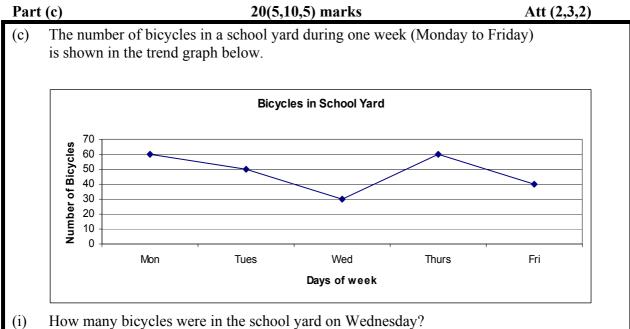
B1 Scale error (each bar)

B2 Trend graph drawn

B3 Bars not distinct

Attempts (6 marks)

A1 Pie-Chart



(ii) What was the total number of bicycles in the school yard during the week?

(iii) What percentage of the total numbers of bicycles was in the school yard on Wednesday?

| _(c)(i) | 5 marks | Att 2 | | | |
|--|---------------------------------------|------------------------------------|--|--|--|
| (c)(i) | 30 | | | | |
| Misreadings (-1) M1 Chooses wrong of Attempts (2 marks) A1 Selects more that Worthless (0) W1 Any other incom | n one of 60, 50, 40, 30 | | | | |
| (c)(ii) | 10marks | Att 3 | | | |
| 🛋 (c)(ii) | 60 + 50 + 30 + 60 + 40 = 240 | | | | |
| Blunders (-3) | | | | | |
| B1 Correct answer v | vith no work shown | | | | |
| Slips (-1) | | 50 30 60 40 and stops: $(B + S)$. | | | |
| S1 Calculation error | Awa | ard 6 marks | | | |
| S2 Calculation not c | 1 | | | | |
| | mitted or additional number (to max - | -3) | | | |
| Attempts (3 marks) | | | | | |
| A1 Identifies any of the relevant numbers (see <i>Case</i>) | | | | | |
| Worthless (0) | | | | | |
| W1 Incorrect answer | with no work. | | | | |

| (c)(iii |) | 5 marks | Att 2 |
|--------------------------|---|---|-------|
| Ø | (c)(iii) $\frac{30}{240} \times 100 = 12.5\%$ | or $\frac{30}{240} = \frac{1}{8} = 12.5\%$ | |
| | ymbol not required ept candidate's figures from previous | parts. | |
| | lers (-3) | | |
| B2 B3 <i>Slips</i> | | Case: $\frac{240}{30} \times 100$ and continues correctly 1B(-3) |) |
| S2 S3 | Arithmetic error in calculations No multiplication by 100 Divides by 100 | | |
| S4 S5 Attem | Calculations not complete Correct answer with no work <i>ppts (2 marks)</i> | | |
| A1 A2 A3 | Some effort at % Correct digits, but incorrect decimal p 8 without work | placement, with no work | |
| | hless (0) | | |
| W1 | Incorrect answer with no work, subject | ct to A2/A3 | |

| | QUESTION 4 | | | |
|---|---|-------------|--|--|
| Part | (a) 10 marks | Att 3 | | |
| Part | | Att 7 | | |
| Part | (c) 20 marks | Att 6 | | |
| Part | (a) 10 marks | Att 3 | | |
| (a) | A bus leaves Dublin at 10:05 and arrives in Athlone at 12:40. How long does the journey take? | | | |
| (a) | 10 marks | Att 3 | | |
| Ø (| (a) $12:40 - 10:05 = 2h 35mins$ | | | |
| B1 B2 B3 B4 Slips S1 Wort | ders (-3) 1hr = 100mins Adds (22:45) Correct answer with no work 12.40 – 10.05 and stops (-1) Numerical error thless (0) rrect answer with no work. | | | |
| Part | (b) 20(10,5,5) marks | Att (3,2,2) | | |
| (b) The j | plan of a garden is shown below. The area of each box is 4 m^2 . | Mr. ST | | |
| (i) | How many boxes are there? | | | |
| (ii) | Calculate the area of the garden in m^2 . | | | |
| (iii) Flowers are planted in three quarters of the garden. Find the area of the garden planted with flowers. | | | | |
| (b) (i | | Att 3 | | |
| (b) (i | , | 28 | | |
| Blund B1 Slips S1 S2 | <i>ders (-3)</i> No addition/subtraction (method 2or3) (-1) ± 2 of correct answer with no work. Arithmetic error <i>Case</i> : One relevant area calculot e.g. $2 \times 8 = 16$; (2×B) | | | |

Attempts (3 marks) A1 Any use of 3, 4, 5, 6 or 8 or any indication of counting the boxes.

| (b)(ii) | 5 | 5marks | Att 2 |
|--------------------------|--|--|--------------------|
| 💉 (b) | (ii) $28 \times 4 = 112$ or | $6 \times 12 + 10 \times 4 = 72 + 40 = 112$ or | equivalent |
| | late's answer from (i) | | 1 |
| Blunders (-3) | | | |
| B1 $28 \div 4$ | | | |
| Slips (-1) | | | |
| - | te calculations | | |
| S2 Numeric S3 Decimal | | | |
| | nswer with no work | | |
| Attempts (2 ma | | | |
| A1 $4 \div 28$ | | | |
| A2 Any effo | rt at adding $4 + 4 + 4$ or | 28 + 28 | |
| A3 28 or 4 i | ewritten | | |
| Worthless (0) | | | |
| | answer with no work | | |
| (b)(iii) | | marks | Att 2 |
| 🙇 (b)(iii) | $\frac{112\times3}{4} = 84 \qquad or \qquad 28\times3 = 100$ | = 84 or $\frac{28 \times 3}{4} = 21$ boxes \Rightarrow | $21 \times 4 = 84$ |
| | 4 | | |
| * A goont good | data'a anguyang from mayiang r | or equivalent | |
| Blunders (-3) | date's answers from previous p | Jans. | |
| | inverted $(^4/_3)$ | | |
| B2 Divides | | | |
| Slips (-1) | | | |
| | te calculations | | |
| S2 Numeric | al error | | |
| S3 Correct a | nswer with no work. | | |
| Attempts (2 ma | | | |
| | or equivalent written | | |
| A2 Ans (i) o | r ans (ii) written for this part. | | |
| Part (c) | 20(10, | 10) marks | Att (3,3) |
| <i></i> (c) (i) | A rectangle measures 6 cm | by 4 cm | |
| | Find the perimeter of the red | • | |
| | - me me permitter of the for | | |
| | | | 4cm |
| | | | |
| | | | |
| | | 6cm | |
| | | | |
| <i>赵</i> (ii) | The radius of a cylinder is 6 | o cm and its height is 10 cm. | |
| | Calculate the volume of the | cylinder, taking $\pi = 3.142$. | |
| | | | |

(c) (i)

10 marks

Att 3

 \swarrow (c) (i) 2(6+4) = 20 or 6+6+4+4 = 20

Blunders (-3)

B1 Gets area: $6 \times 4 = 24$

B2 $6 \times 6 \times 4 \times 4 = 576$

B3 Correct answer with no work

Slips (-1)

S1 Numerical error

S2 Each side omitted / each additional side included in the addition.

S3 Incomplete calculations

Attempts (3 marks)

A1 6, 4, 10, 24 or 576 without work *Worthless (0)*

W1 Incorrect answer without work, subject to A1

| (c) (ii |) | 10 marks | Att 3 |
|---------|---------|--|-------|
| Ŋ | (c)(ii) | $V = \pi r^2 h = 3.142 \times 6^2 \times 10 = 1131.12$ | |
| | 1 0 | | |

* No penalty for using π button on calculator.(1130.97....)

* If other variations of π used then (S (-1)) i.e.

1130·something *or* 1131·something (other than correct answer) *with work* 9 marks 1130·something *or* 1131·something (other than correct answer) *without work* 6 marks *Blunders (-3)*

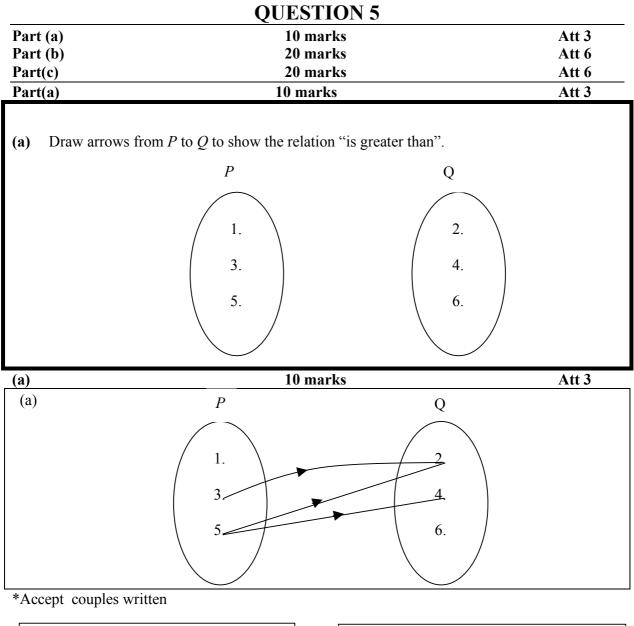
- B1 Incorrect relevant formula
- B2 Correct answer with no work shown
- B3 Incorrect substitution (once only)
- B4 Mathematical error e.g. $6^2 = 12$ each time

Slips (-1)

- S1 Numerical errors (once only)
- S2 Misplaced decimal
- S3 Calculations not complete
- Attempts (3 marks)
- A1 π not used
- A2 Correctly labelled diagram
- A3 Correct formula written and stops.

Worthless (0)

W1 Incorrect answer without work other than *



| Case1: 3 lines or less drawn | |
|---|---|
| 3 correct:10 mar2 correct and 1 incorrect/omitted: 7m1 correct and 2 incorrect/omitted: 4All incorrectAttempt 3 m | n |

Attempts (3 marks)

A1 Any link drawn from set P to set Q

| Case 2: More than 3 lines drawn |
|--|
| 3 correct, rest incorrect7marks2 correct, rest incorrect4 marks1 or none correctAttempt 3 marks. |

| 4 |
|---|
| |
|] |

| (b) (i) |) | | 10 marks | | Att 3 |
|----------|---|-----------|-----------|-------|-------|
| Æ (b)(i) | | 1 + 5 = 6 | 3 + 5 = 8 | 4 + 5 | = 9 |
| | | | | | |
| | x | 1 | 2 | 3 | 4 |
| | у | 6 | [7] | 8 | 9 |
| | | | | | |

*Answers need not be written in table *Blunders (-3)*

B1 Transposition error (once only)

B2 5x (unless an obvious misreading)

B3 Correct answer with no work

Slips (-1)

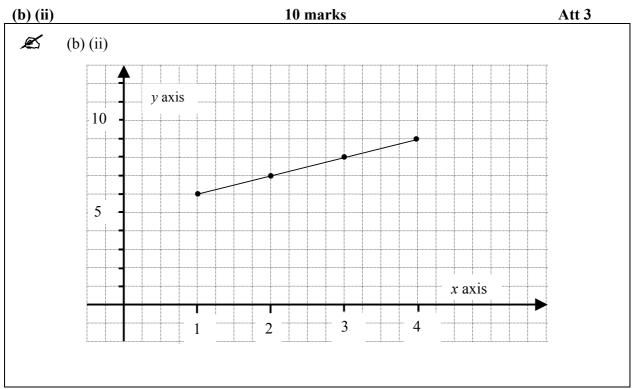
- S1 Calculation error (once only if consistent)
- S2 Adds in top line

Misreadings (-1)

M1 Error in copying down question

Attempts (3 marks)

- A1 1 or 2 correct entries with no work.
- A2 Table <u>completed</u> with spurious numbers



* Accept candidate's figures from (i)

- * Tolerance ± 0.5 cm (\pm a box on grid)
- * If 4 correct points are correctly plotted and no marks were awarded for (i), award att 3 marks retrospectively for (i)

Blunders (-3)

B1 Scale error if different graph/ squared paper used(once)

Slips (-1)

- S1 Each incorrectly plotted point, subject to S2, or each omitted point.
- S2 (y,x) consistently drawn, penalise once only.
- S3 All points not joined.

Attempts (3 marks)

A1 Random (straight) line drawn

Part (c)

20(10,10) marks

(c) (i) Find the value of x² + 4x + 2 when x = 3.
 (ii) Solve for x:

3(x-4) = 9

| (c) (i | i) 10 marks | Att3 |
|------------|--|------|
| Ľ | (c) (i) $(3)^2 + 4(3) + 2 = 9 + 12 + 2 = 23$ | |
| Blune | ders (-3) | |
| B1 | Mathematical error e.g. $3^2 = 6$, $4(3) = 4 + 3$ or 43 each time | |
| B2 | Distributive error (once) | |
| B3 | Correct answer with no work shown. | |
| Slips | (-1) | |
| S 1 | Arithmetic errors (once) | |
| S2 | Calculations not complete. | |
| Misre | eadings (-1) | |
| M1 | Error in taking down question, if not oversimplified. | |
| Atten | npts (3 marks) | |
| A1 | Any correct step | |
| Wort | hless (0) | |
| W1 | Incorrect answer with no work. | |

| (c) (ii) | 10 marks | | Att 3 |
|------------|--|------------------------------------|-------|
| Æ (c) (ii) | $3x - 12 = 9 \implies 3x = 9 + 12 = 21$ | $\Rightarrow x = \frac{21}{3} = 7$ | |
| . or | $x-4 = \frac{9}{3} = 3 \qquad \Longrightarrow x = 3+4 = 7$ | | |
| - A - 4 | | | |

*Accept successful T+E, but work must be shown. *Blunders (-3)*

B1 Correct answer with no work

B2 Distributive error

B3 Transposition error *each time*

B4 Ignores 3 and continues

Slips (-1)

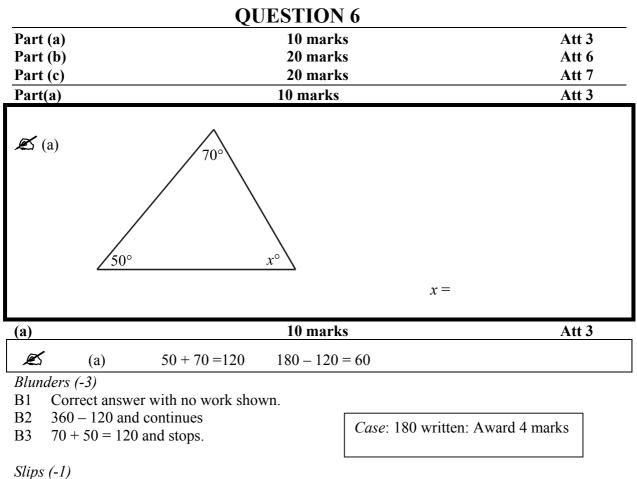
S1 Calculations not complete.

Attempts (3 marks)

A1 Unsuccessful T+E

A2 Any correct step e.g. 3x

Att6(3,3)

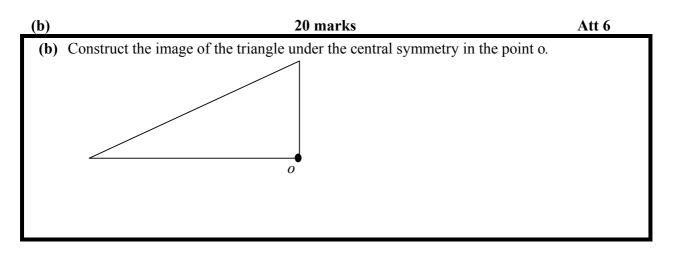


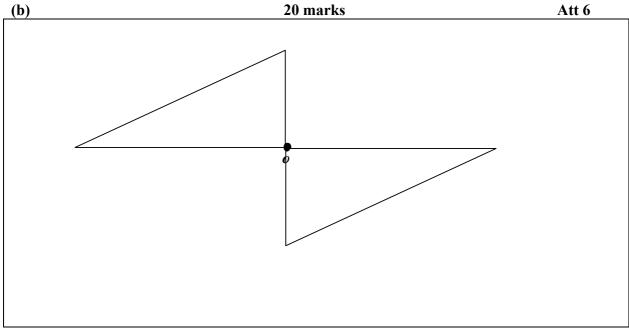
S1 Calculation error

Attempts (3 marks)

A1 Measures angle. Gives answer 60 ± 5 (excluding 60 itself)

A2 120, with no work.





* Tolerance ± 0.5 cm (to the eye)

Blunders (-3)

- B1 Vertices located but not joined.
- B2 o not mapped onto o (within tolerance) other than when B3 applies
- B3 Central symmetry but centre of symmetry not at *o*.
- B4 One inversion missing
- B5 2nd inversion missing

Attempts (6 marks)

- A1 Any triangle drawn
- A2 Any effort at locating an image

| Part (c) | 20(10,10) | Att (3,3) |
|---|---|-----------|
| | There are three different triangles in the diagram. One triangle is <i>cad</i> . Write down the names of the other two triangles. | |
| Answer_ | a | d b |
| <i>赵</i> (ii) | Use the Theorem of Pythagoras to find the length of the side marked y in the right-angled triangle. | 5 |
| (c)(i) | 10marks | Att 3 |
| (c) (i) | cab cdb | |
| Slips (-1) S1 Tria Attempts (| answer incorrect or omitted. ngle clearly identified but not written (each time) | Att 3 |
| (c) (ii) | | Att 3 |
| Blunders (B1 Corr B2 Math B3 Fails Slips (-1) S1 Arith Attempts (A1 5+ A2 Mea A3 One A4 y ² o Worthless | F-3) rect answer with no work shown hematical error in squaring (once) e.g. $5^2 = 10$ s to get $$ B4 Mathematical error in getting $$ hmetic slip 13 marks) 12 = 17 asures length: 6.5 ± 0.5 cm $(2^3/_8 \text{ to } 2^6/_8 \text{ in})$. or more squares drawn on sides r 5^2 or 12^2 and stops | |