
MATHEMATICS

0845/02

Paper 2

For Examination from 2014

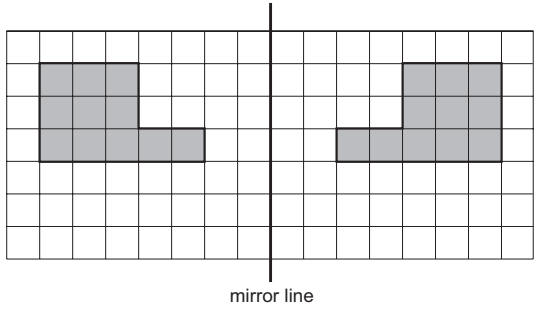
SPECIMEN MARK SCHEME

Maximum Mark: 40

This document consists of **11** printed pages and **1** blank page.

| Question | 1 | | |
|--------------|----------|--|---|
| Part | Mark | Answer | Further Information |
| | 1 | 7906 and Two thousand and seventy nine | Accept reasonable spelling. Accept alternative wording if mathematically correct e.g. two thousand seventy nine twenty hundred seventy nine |
| Total | 1 | | |

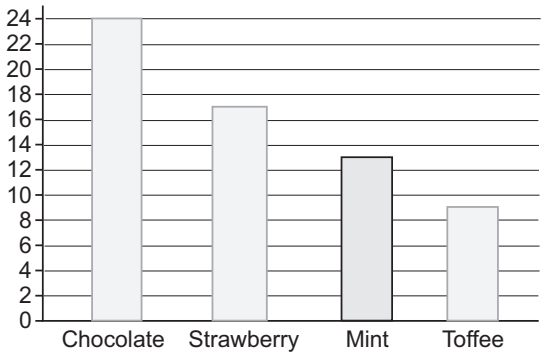
| Question | 2 | | |
|--------------|----------|---|---------------------------------|
| Part | Mark | Answer | Further Information |
| | 1 | <div style="border: 1px solid black; display: inline-block; padding: 2px 5px;">></div> <div style="border: 1px solid black; display: inline-block; padding: 2px 5px;"><</div> <div style="border: 1px solid black; display: inline-block; padding: 2px 5px;">></div> | All three correct for the mark. |
| Total | 1 | | |

| Question | 3 | | |
|--------------|----------|---|--|
| Part | Mark | Answer | Further Information |
| | 1 |  | Reflection does not need to be shaded. |
| Total | 1 | | |

| | | | |
|-----------------|-------------|---------------|----------------------------|
| Question | 4 | | |
| Part | Mark | Answer | Further Information |
| | 1 | 155 (boats) | |
| Total | 1 | | |

| | | | |
|-----------------|-------------|--|---|
| Question | 5 | | |
| Part | Mark | Answer | Further Information |
| (a) | 1 | The number in the square and the number in the circle add to 1000. | Accept any answer that implies they make 1000 e.g. number in circle is 1000 – number in square. |
| (b) | 1 | 350 | follow through from (a) |
| Total | 2 | | |

| | | | |
|-----------------|-------------|---|------------------------------|
| Question | 6 | CPM200229 | |
| Part | Mark | Answer | Further Information |
| | 1 | 65 302 51 302 69 502 48 352 | Accept any clear indication. |
| Total | 1 | | |

| Question | 7 | | |
|--------------|----------|---|---|
| Part | Mark | Answer | Further Information |
| (a) | 1 | 17 9 | Both must be correct for the mark. |
| (b) | 1 |  <p>Chocolate Strawberry Mint Toffee</p> | Accept any clear indication of value of 13. |
| Total | 2 | | |

| Question | 8 | | |
|--------------|----------|--------------------------------------|---------------------|
| Part | Mark | Answer | Further Information |
| | 1 | $\frac{2}{3}$ or equivalent fraction | |
| Total | 1 | | |

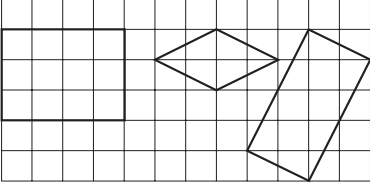

| Question | 9 | | | | | |
|--------------|----------|--|---------------------|---|---|--|
| Part | Mark | Answer | Further Information | | | |
| | 1 | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> </tr> </table> | 6 | 4 | 5 | |
| 6 | 4 | 5 | | | | |
| Total | 1 | | | | | |

| Question | 10 | | |
|--------------|----------|--|---------------------|
| Part | Mark | Answer | Further Information |
| | 1 | 12×4 <input type="checkbox"/> $12 - 4$ <input type="checkbox"/> $12 + \frac{1}{4}$ <input type="checkbox"/> $12 \div 4$ <input checked="" type="checkbox"/> $12 - \frac{1}{4}$ <input type="checkbox"/> | |
| Total | 1 | | |

| Question | 11 | | |
|--------------|----------|--------|--|
| Part | Mark | Answer | Further Information |
| | 1 | -3 | Accept any indication of the correct answer. |
| Total | 1 | | |

| Question | 12 | | |
|--------------|----------|--------|---------------------|
| Part | Mark | Answer | Further Information |
| (a) | 1 | 8000 | |
| (b) | 1 | 3.7 | |
| Total | 2 | | |

| Question | 13 | | |
|--------------|----------|---|---------------------|
| Part | Mark | Answer | Further Information |
| | 1 | 15×30 or 30×15 | |
| Total | 1 | | |

| Question | 14 | | |
|--------------|----------|---|--|
| Part | Mark | Answer | Further Information |
| (a) | 1 | Drawing of a rectangle or drawing of a rhombus. | <p>Examples include:</p>  <p>Do not accept a square.</p> |
| (b) | 1 | <p>An explanation or diagram that recognises the sum of the 2 right angles would equal the sum of all angles in a triangle. E. g.</p> <ul style="list-style-type: none"> The angles in a triangle add up to 180 degrees which is the same as two right angles. The lines would be parallel. Nothing left for the third angle. The lines would not intercept.  <ul style="list-style-type: none"> If it had 2 right angles it would have more sides. | <p>Do not accept answers that singularly refer to properties of a triangle without explanation. E.g.</p> <ul style="list-style-type: none"> Angles in a triangle add up to 180° <p>Do not accept incorrect explanations. E.g.</p> <ul style="list-style-type: none"> Triangles have 1 right angle. It will become a square. |
| Total | 2 | | |

| Question | 15 | | | | | | | | | | | | | | | |
|--------------------------------|----------|--|---------------------|---------|------------|---------------|-----|-----|--------------------------------|-----|-----|---------------|------|-----|---|--|
| Part | Mark | Answer | Further Information | | | | | | | | | | | | | |
| | 2 | <table border="1"> <thead> <tr> <th>Fraction</th> <th>Decimal</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>$\frac{1}{2}$</td> <td>0.5</td> <td>50%</td> </tr> <tr> <td>$\frac{4}{10}, \frac{2}{5}$ oe</td> <td>0.4</td> <td>40%</td> </tr> <tr> <td>$\frac{3}{4}$</td> <td>0.75</td> <td>75%</td> </tr> </tbody> </table> | Fraction | Decimal | Percentage | $\frac{1}{2}$ | 0.5 | 50% | $\frac{4}{10}, \frac{2}{5}$ oe | 0.4 | 40% | $\frac{3}{4}$ | 0.75 | 75% | Award 2 marks for all 4 correct. Award 1 mark if 2 or 3 cells completed correctly. | |
| Fraction | Decimal | Percentage | | | | | | | | | | | | | | |
| $\frac{1}{2}$ | 0.5 | 50% | | | | | | | | | | | | | | |
| $\frac{4}{10}, \frac{2}{5}$ oe | 0.4 | 40% | | | | | | | | | | | | | | |
| $\frac{3}{4}$ | 0.75 | 75% | | | | | | | | | | | | | | |
| Total | 2 | | | | | | | | | | | | | | | |

| Question | 16 | | | |
|--------------|----------|--------|---------------------|--|
| Part | Mark | Answer | Further Information | |
| | 1 | 85 | | |
| Total | 1 | | | |

| Question | 17 | | | |
|--------------|----------|--------|---------------------|--|
| Part | Mark | Answer | Further Information | |
| | 1 | 120 | | |
| Total | 1 | | | |

| Question | 18 | | | |
|--------------|----------|----------|---------------------|--|
| Part | Mark | Answer | Further Information | |
| | 1 | 420 (cm) | | |
| Total | 1 | | | |

| Question | 19 | | |
|--------------|----------|------------------------------------|--|
| Part | Mark | Answer | Further Information |
| (a) | 1 | (-5, 2) | Correct answer only. |
| (b) | 1 | 7 squares to the right and 3 down. | Accept 3 squares down and 7 right. Accept $\begin{pmatrix} 7 \\ -3 \end{pmatrix}$ |
| Total | 2 | | |

| Question | 20 | | |
|--------------|----------|---|-------------------------------|
| Part | Mark | Answer | Further Information |
| | 1 | $\frac{5}{8} > \frac{3}{8}$ $\frac{6}{8} = \frac{3}{4}$ $\frac{3}{8} < \frac{1}{2}$ | All signs correct for 1 mark. |
| Total | 1 | | |

| Question | 21 | | |
|--------------|----------|--|------------------------------|
| Part | Mark | Answer | Further Information |
| | 1 | 8 kilometres <input type="checkbox"/> 30 kilometres <input type="checkbox"/> 80 kilometres <input checked="" type="checkbox"/> 200 kilometres <input type="checkbox"/> 500 kilometres <input type="checkbox"/> | Accept any clear indication. |
| Total | 1 | | |

| Question | 22 | | |
|--------------|----------|----------------------|---------------------------------------|
| Part | Mark | Answer | Further Information |
| (a) | 1 | Square based Pyramid | Do not accept tetrahedron or pyramid. |
| (b) | 1 | Triangular prism | Do not accept prism. |
| Total | 2 | | |

| Question | 23 | | |
|--------------|----------|--------------------|-----------------------------------|
| Part | Mark | Answer | Further Information |
| | 1 | 2.5cm 30mm 20cm 1m | All must be correct for the mark. |
| Total | 1 | | |

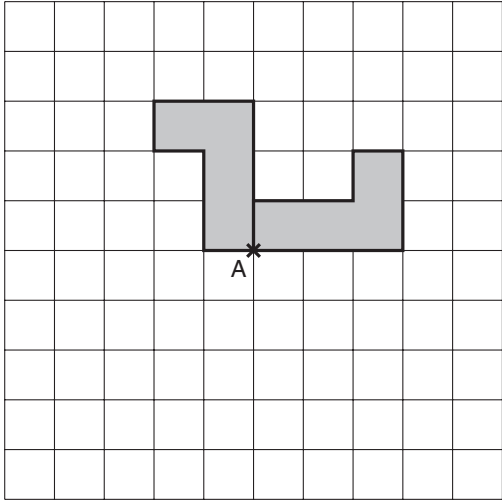
| Question | 24 | | |
|--------------|----------|--------|---------------------|
| Part | Mark | Answer | Further Information |
| | 1 | 8 | |
| Total | 1 | | |

| Question | 25 | | |
|--------------|----------|-----------|------------------------------------|
| Part | Mark | Answer | Further Information |
| (a) | 1 | 11 and 17 | Both must be correct for the mark. |
| (b) | 1 | 36 and 49 | Both must be correct for the mark. |
| Total | 2 | | |

| Question | 26 | | |
|--------------|----------|---------------------------------|------------------------------|
| Part | Mark | Answer | Further Information |
| (a) | 1 | Unlikely | Accept any clear indication. |
| (b) | 1 | Arrow pointing to likely (0.75) | Accept ± 1 mm |
| Total | 2 | | |

| Question | 27 | | |
|--------------|----------|--------------|--|
| Part | Mark | Answer | Further Information |
| (a) | 1 | 13 12 | Accept 1:12 pm. Do not accept 13:12 pm. |
| (b) | 1 | 49 (minutes) | |
| Total | 2 | | |

| Question | 28 | | |
|--------------|----------|------------|---------------------|
| Part | Mark | Answer | Further Information |
| | 1 | (\$) 38.25 | |
| Total | 1 | | |

| Question | 29 | | |
|--------------|----------|---|--|
| Part | Mark | Answer | Further Information |
| | 1 |  | <p>Accept any clear indication about where the rotated shape is positioned.</p> <p>Shading not required.</p> |
| Total | 1 | | |

| Question | 30 | | |
|--------------|----------|---|-----------------------------|
| Part | Mark | Answer | Further Information |
| | 1 | $\boxed{2} \boxed{6} \boxed{3} + \boxed{5} \boxed{5} \boxed{4} = \boxed{8} \boxed{1} \boxed{7}$ | All 3 correct for the mark. |
| Total | 1 | | |

