## Cambridge International Examinations

## Cambridge Primary Checkpoint

## MATHEMATICS

0845/02
Paper 2
April 2017
MARK SCHEME
Maximum Mark: 40

## IMPORTANT NOTICE

Mark Schemes have been issued on the basis of one copy per Assistant examiner and two copies per Team Leader.

## Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Markers were instructed to award marks. It does not indicate the details of the discussions that took place at an Markers' meeting before marking began, which would have considered the acceptability of alternative answers.
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.
Cambridge will not enter into discussions about these mark schemes.

## Mark scheme annotations and abbreviations

| M1 | method mark |
| :--- | :--- |
| A1 | accuracy mark |
| B1 | independent mark |
| FT | follow through after error |
| dep | dependent |
| oe | or equivalent |
| cao | correct answer only |
| isw | ignore subsequent working |
| soi | seen or implied |


| Question | Answer |  |  | Marks | Further Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 200 and 850 |  |  | 2 | Accept 840 to 860 inclusive for 850 . |
|  | One correct answer. |  |  | B1 |  |
| Question | Answer |  |  | Marks | Further Information |
| 2 | B C | A | D | 1 | Accept $20^{\circ}, 85^{\circ}, 90^{\circ}, 130^{\circ}\left(\right.$ all $\pm 5^{\circ}$ ) |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| 3 | 384 | 1 |  |



| Question | Answer | Marks | Further Information |
| :---: | :---: | :---: | :---: |
| 5 (a) | 25 (ants) | 1 |  |
| 5 (b) | An explanation that shows there are more spiders in the Class 4B pictogram, for example: <br> - $\quad$ The chart shows that Class 4 A collected $3 \times 5=15$ spiders but Class $4 B$ collected $2 \times 10=20$ spiders. | 1 | Do not award the mark for explanations that only restate the value of each symbol, for example <br> - in 4 A each symbol $=5$ <br> - in 4 B each symbol $=10$ <br> Values of 15 and 20 must be correct. |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $6(\mathrm{a})$ | $2(\mathrm{~cm})$ | 1 |  |
| $6(\mathrm{~b})$ | $36(\mathrm{~cm})$ | 1 |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| 7 | 8 (people) | 1 |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $\mathbf{8}$ | 6710 <br> 6700 <br> 7000 | $\mathbf{2}$ | All 3 answers must be correct for 2 marks. |
|  | Any two correct answers. | B1 |  |



| Question | Answer | Marks | Further Information |
| :---: | :---: | :---: | :---: |
| 12 | An explanation that shows that the answer to $342 \div 5$ is not a whole number, for example: <br> - 342 divided by 5 has a remainder (answer must be evaluated, i.e. gives the remainder of 2) <br> - the answer is not a whole number (answer must be evaluated, i.e. gives answer of 68.4) <br> or <br> An explanation that includes 0 and 5 , for example: <br> - All the multiples of 5 end in 0 or 5 <br> - 342 does not end in 0 or 5 <br> or <br> An explanation stating that any number ending in 2 cannot be divisible by 5 , for example: <br> - Any number with a units digit of 2 is not divisible by 5 | 1 |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| 13 | 10 (minutes) | 1 |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| 14 | Rectangle $9 \times 2$ or $6 \times 3$ | 1 | Do not accept rectangles that do not use the dots. |


| Question |  |  | Answer | Marks | Further Information |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 15 | 14 | 24 | 34 | 42 | 54 | 1 |  |



| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $\mathbf{1 7}$ | $11,13,17$ and 19 | $\mathbf{2}$ |  |
|  | Three correct answers with at most one additional incorrect <br> answer. <br> or <br> All four correct with one extra. | B1 |  |


| Question |  | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1 8}$ | impossible | unlikely |  |  |


| Question | Answer | Marks | Further Information |
| :---: | :---: | :---: | :---: |
| 19 | (\$)78.90 | 2 |  |
|  | A correct method containing any number of arithmetic errors, e.g. $22 \times 2.75+4 \times 4.60$ | M1 |  |
| Question | Answer | Marks | Further Information |
| 20 (a) | 2 squares shaded. | 1 |  |
| 20 (b) | $\frac{7}{10} \text { or } \frac{70}{100}$ | 1 | Accept equivalent fractions or decimals, for example: 0.7 or $\frac{14}{20}$ |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{2 1}$ |  | 2 | All three answers correct. |


| Question | Answer | Marks | Further Information |  |
| :--- | :---: | :---: | :---: | :---: |
| $\mathbf{2 2}$ | false |  | 1 | All answers must be correct for the award of 1 mark. |
|  | true |  |  |  |
|  | false |  |  |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | ---: | ---: |
| 23 | 5 or -6 | 1 |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $\mathbf{2 4}(\mathrm{a})$ | $3(\mathrm{~cm})$ | $\mathbf{1}$ |  |
| $\mathbf{2 4}(\mathrm{b})$ | $52(\mathrm{~mm})$ | $\mathbf{1}$ | Allow 51 mm or 53 mm. |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $\mathbf{2 5}$ | 4 (faces) <br> 8 (vertices) <br> 8 (edges) | $\mathbf{2}$ |  |
|  | Two correct answers. | B1 |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $\mathbf{2 6}$ | $21: 35$ | $\mathbf{1}$ | Accept 9:35 pm. |
| Do not accept 9:35. |  |  |  |


| Question |  | Answer | Marks | Further Information |
| :--- | :---: | :---: | :---: | :---: |
| 27 | $\frac{1}{5}$ | $\boxed{2}$ |  | 1 |
|  | 5 | Both answers must be correct for the award of the mark. |  |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $\mathbf{2 8}$ | 18 (cats) | 1 |  |


| Question | Answer | Marks | Further Information |
| :--- | :--- | :--- | :--- |
| $\mathbf{2 9}$ | (\$) 6.20 | $\mathbf{2}$ |  |
|  | A correct method containing any number of arithmetic <br> errors e.g. <br> $\bullet \quad \frac{2170 \div 3.5}{100}$ | M1 | Only award one of the M1 or B1 marks. |
|  | Sight of 620 with no unit (as final answer in their working). <br> or <br> 620 cents seen with incorrect place value conversion to $\$$. | B1 |  |

