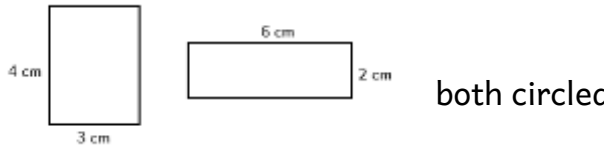


DEPARTMENT FOR CURRICULUM, LIFELONG LEARNING AND EMPLOYABILITY
 Directorate for Learning and Assessment Programmes
 Educational Assessment Unit
 End of Primary Benchmark
 Second Session
 2018

MATHEMATICS MARKING SCHEME

MENTAL PAPER

(1 mark each c.a.o.)

| | |
|-----|---|
| 1. | Any even number between 111 and 193 |
| 2. | 24 |
| 3. | cube |
| 4. | '€10•20' ticked |
| 5. | 4 |
| 6. | 3 |
| 7. | 75 |
| 8. | 2 |
| 9. |  |
| 10. | 'four tenths' ticked |
| 11. | 60 |
| 12. | Any common multiple of 2, 4 and 10 |
| 13. | 10 |
| 14. | 5 |
| 15. | 15:10 |
| 16. | 116 |
| 17. | 'one thousand times larger' ticked |
| 18. | 300 m or 0•3 km or equivalent [do not award marks if unit is left out] |
| 19. | 70 |
| 20. | 80 |

WRITTEN PAPER

| Question No. | Answers and Requirements | Marks | Additional Guidance |
|--------------|---|-------|--|
| 1. a) | 200 | 1 | c.a.o. |
| b) | 726 | 1 | c.a.o. |
| c) | 408 | 1 | c.a.o. |
| d) | 20 | 1 | c.a.o. |
| 2. a) | Any 5-digit number containing digits 3, 4, 5, 6 and 7 which is larger than 40,000 | 1 | c.a.o. |
| b) | 463 / 563 / 763 | 1 | c.a.o. |
| c) | 7653 | 2 | c.a.o. |
| 3. a) (i) | 270° | 1 | c.a.o. |
| (ii) | 135° | 1 | c.a.o. |
| b) (i) | 3 o'clock drawn accurately | 1 | c.a.o. |
| (ii) | 210° | 1 | c.a.o. |
| 4. | <u>1</u> m (identified as the shortest) 2 | 1 | c.a.o |
| | 0.15 km, 350 m (in correct place) | 1, 1 | c.a.o. |
| | 1.5 km (identified as the largest) | 1 | c.a.o. |
| 5. | 40 | 5 | c.a.o. If incorrect: Award 1 mark if multiples of 4 are seen in working or if answer is a multiple of 4. Award 1 mark if multiples of 5 are seen in working or if answer is a multiple of 5. Award 1 mark if multiples of 8 are seen in working or if answer is a multiple of 8. |

| Question No. | Answers and Requirements | Marks | Additional Guidance |
|--------------|--|-------|--|
| 6. a) | 33 | 1 | c.a.o. |
| b) (i) | 49 | 2 | c.a.o. If incorrect: Award 1 mark if valid attempt to continue sequence is seen (e.g. + 4 added each time). |
| (ii) | 209 | 2 | c.a.o. If incorrect: Award 1 mark if 49×4 or equivalent is seen. |
| 7. a) (i) | 2 | 1 | c.a.o. |
| (ii) | 6 | 1 | c.a.o. |
| b) | <p>Accept other polygons with 7 sides which have 1 line of symmetry as correct.</p> | 3 | c.a.o. If incorrect: Award 1 mark if a polygon with 7 sides is drawn. Award 1 mark if a polygon with 1 line of symmetry is drawn. |
| 8. a) | | 2 | c.a.o. |
| b) | | 2 | c.a.o. |
| c) | 100 | 1 | c.a.o. |
| 9. a) | one quarter of the shape is shaded | 2 | c.a.o. |
| b) | ' $\frac{4}{24}$ ' ticked | 2 | c.a.o. |
| c) | $\frac{11}{60}$ (or any other fraction which is larger than $\frac{1}{6}$ but smaller than $\frac{1}{5}$) | 1 | c.a.o. |

| Question No. | Answers and Requirements | Marks | Additional Guidance |
|--------------|---|-------|--|
| 10. a) | Hands on the clock drawn to show 22:30 | 2 | c.a.o. [award marks only if both minute hand and hour hand are drawn accurately] |
| b) | 01:28 or 1:28 am | 3 | c.a.o. [award 1 mark for 1:28 without am] If not correct: Award 1 mark for attempt to add 22:30 and 2 hours 58 minutes / timeline. |
| | | | |
| 11. a) | 108, 117 (or any other multiple of 9 which is greater than 100) | 1, 1 | c.a.o. |
| b) | 1, 2, 3, 6 | 3 | c.a.o. If not all correct: Award 1 mark for one correct common factor written. Award 2 marks for two or three common factors written. |
| | | | |
| 12. a) | 17•5 | 2 | c.a.o. If incorrect: Award 1 mark for a valid attempt e.g. $([5 \times 7]/2)$ is seen. |
| b) | 33•1 | 2 | c.a.o. If incorrect: Award 1 mark for a valid attempt e.g. $([7 \times 4] + [3 \times 1•7])$ is seen. |
| c) | 6 | 1 | c.a.o. |
| | | | |

| Question No. | Answers and Requirements | Marks | Additional Guidance |
|--------------|------------------------------|-------|---|
| 13. a) | 15 | 2 | c.a.o. If incorrect: Award 1 mark if 100% - [30% + 55%] or any equally valid attempt is seen. |
| b) | $\frac{3}{10}$ or equivalent | 2 | c.a.o. |
| c) | 1925 | 2 | c.a.o. If incorrect: Award 1 mark if 55% of €3500 or any equally valid attempt is seen. |
| | | | |
| 14. a) | 7 | 3 | c.a.o. If incorrect: Award 2 marks for a valid attempt to divide 1000 by 135 [or repeated subtraction / addition] is seen. |
| b) | 80 | 3 | f.t. from 14a If incorrect: Award 1 mark if 1000 - 945 or 55 is seen Award 1 mark if 135 - 55 or equivalent is seen. |
| | | | |
| 15. a) | 36 | 4 | c.a.o. If incorrect: Award 1 mark if [33 + 37 + 35 + 34 + 29] or 168 is seen. Award 1 mark if 34 x 6 or 204 is seen. Award 1 mark if 204 - 168 is seen. |

| Question No. | Answers and Requirements | Marks | Additional Guidance |
|--------------|---|-------|--|
| 15. b) | 3•6 | 2 | c.a.o. If incorrect: Award 1 mark if 19•5 - 15•9 is seen. |
| 16. a) | 15 | 4 | c.a.o. If incorrect: Award 2 marks for a valid attempt e.g. trial and improvement. Award 1 mark if 16 is seen. |
| b) | 54 (or equivalent e.g. 54•00 is seen) | 2 | c.a.o. If incorrect: Award 1 mark if 4•5 × 12 or any other equally valid attempt is seen. |
| | | | |

Legend to Marking Scheme:

c.a.o. correct answer only
f.t. follow through

Other guidelines:

- No mark in the marking scheme is sub-divisible.
- A correct answer scores full marks, even if no working is shown.
- Incorrect answers – even though nearly correct – score no marks but marks are awarded for correct working.
- No marks are awarded when a wrong method leads to a correct answer.
- Incorrect working or statement following a correct answer is ignored.
- An answer or working that is crossed out and not replaced, is marked as if it was not crossed out. If the answer or working is **replaced**, then the crossed out answer or working should **not** be considered in your marking.
- If a correct answer is copied incorrectly from the working area to the answer area, then the marks are awarded fully.
- In the case of misreading, f.t. may be applied and only the final accuracy mark is lost. The method marks may still be earned provided that the misreading doesn't oversimplify the question.