

Junior Mental Calculation World Championship: Rules

<https://www.juniormentalcalculators.com/>



1. Remain silent. Don't make any noises like whispering or knocking.
2. Don't bring phones or reference materials into the room!
3. Write only in pen, not with a pencil.
4. Do not write any intermediate calculations anywhere.
5. If your final answer is unclear, it will be marked wrong.
6. On the exam paper, do not write anything except your answers.
7. You may answer the tasks in any order. You may skip some tasks if you think this is a good strategy for you.
8. If necessary, you may make small marks on the printed tasks if it helps you count the digits. For example, there would be no problem with any of the following:

1234|56|78

12345678

12345678

9. If you wish to change an answer, cross through the answer with a single line and write your new answer next to it. The old answer **must** be clear! Do not change any answer more than once.
10. Some tasks (e.g. currency and inexact square roots) require the answer to a specific number of decimal places (d.p.). Don't write extra decimal places! But if you round the last digit incorrectly, half marks will be awarded.

Example: square root of 567 to 1 d.p. [precise answer is 23.8117618...]

Correct answer: 23.8 → full marks

Too precise: 23.81 → only half marks (don't do this!)

Incorrect rounding: 23.9 → only half marks

Incorrect answers: 23.7 or 23.79 → no marks

11. Write fractions as mixed fractions in their simplest form: $1\frac{3}{7}$ is correct, but not $\frac{10}{7}$ or $1\frac{30}{70}$
12. For calendar tasks, write either the full name of the day/month or a three-letter abbreviation, in German or in English. If several months could be a correct answer to a task, it is best to write only one of these months.
13. For prime factors tasks, write each prime factor the required number of times, in any order. Each of the following would be acceptable:

5, 2, 2, 2

$5 \times 2 \times 2^2$

$2^3, 5$

14. For sums of squares tasks, write the 2, 3 or 4 integers whose squares have the correct sum. Do not write the squared numbers otherwise you get zero marks. Check the following attempts at the sum of squares to 150:

Correct answers: 10, 5, 5 or $12^2 + 2^2 + 1^2 + 1^2$

Too many squares: 10, 4, 4, 3, 3

Unacceptable formats: 100, 25, 25 or $144 + 4 + 1 + 1$

15. For missing information tasks: You may record the full answer or only the missing figure(s).