Grade KG





CREST Mental Maths Olympiad (CMMO)

Sample Paper

Pattern and Marking Scheme				
Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade KG	Basique	20	1	20
	Avance	5	2	10
Grand Total		25		30

The total duration of the exam is 45 minutes.

Syllabus

1. Number Magic and Counting Quest

- a. Counting Champions: Count objects mentally up to 10 and identify the exact number.
- b. **Number Neighbours:** Identify the number that comes before, after, or between given numbers within 10.
- c. **Zero Zone:** Understand zero as "none" or "nothing" through practical examples.

2. Addition Adventures

- a. Quick Adds: Mentally add two single-digit numbers with a sum up to 10
- b. Picture Play Addition: Use picture-based problems (like apples or stars) to add two
- c. **Missing Addend Challenge:** Identify the missing number in an addition equation (e.g., 5 + = 7).

3. Subtraction Secrets

- a. **Simple Subtracts:** Mentally subtract one single-digit number from another, ensuring the difference is zero or greater.
- b. **Picture Puzzle Subtraction:** Use picture-based problems to subtract and understand the concept of "taking away."
- c. **Find the Missing Number:** Complete subtraction equations with missing values (e.g., $\underline{}$ 2 = 3).

4. Pattern Play and Number Trails

- a. **Number Patterns:** Recognise and continue simple number patterns (e.g., 1, 2, 3, ___, 5).
- b. **Counting Champs:** Complete number sequences with increments of 1, exploring forward and backward counting.

- c. **Skip Counting Stars:** Skip counting by 2s and 5s up to 20
- d. Repeating Patterns: Identify patterns that repeat (e.g., red, blue, red, blue).

5. Number Showdown

- a. **Compare It Right:** Mentally compare two numbers and identify which is greater, smaller, or if they are equal.
- b. Order Out: Arrange three numbers in order from smallest to largest with visual support.
- c. **Number Signs:** Use the symbols '>', '<', and '=' to compare numbers accurately.

6. Number Bonds and Relationships

- a. **Magic Pairs:** Understand number bonds that make 5 and 10, using pairs of numbers.
- b. **Complete the Total:** Solve simple mental problems related to number bonds (e.g., what number added to 4 makes 10?).
- c. **Pairs to Perfection:** Use pairs of numbers to complete a given total, building a strong foundation in number relationships.

7. Time Travelers

- a. **Day Detectives:** Sequence the days of the week in the correct order from Monday to Sunday.
- b. **Before and After Challenge:** Identify the day or month that comes before or after a given one.
- c. **Counting Days Quest:** Count days forward or backward from any given day to master basic time skills.

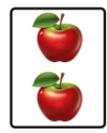
8. Shape Safari

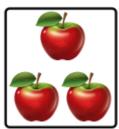
- a. **Shape Spotters:** Recognise basic 2D and 3D shapes like square, rectangle, triangle, circle, oval, sphere, cone, cube, cylinder
- b. Shape Matching: Match shapes to everyday objects (e.g., a ball is a circle).

For more details, visit https://www.crestolympiads.com/mental-maths-mmo

Basique (Each Question is 1 Mark)

1. Count the apples and add them together.





a. •



2. Add:





a. 🍣



3. Duck has 6 friends. How many more to make 10 ducks?



a. 🧳



4. Fill in the blank:



a. 🚑



5. Find the another pair for 3:



a. 🎢



6. Count the apples on the tree.



a. 🧑



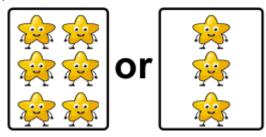
7. Which number comes before 9?



a. **8**



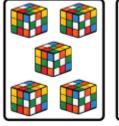
8. Which has fewer stars?

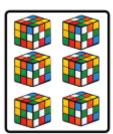


a. **(**



9. Are 5 cubes the same as 6 cubes?

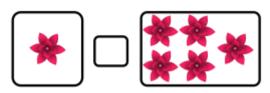




a. **Yes**



10. Choose the right sign:



a. 🤇

11. Continue the count:



a. 5

b. **6**

12. Recognise the pattern:







13. Fill in the blank:



a. 8



14. Match the shape of an ice cream cone.



a. **Sphere**



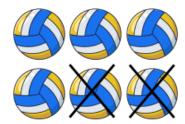
15. What shape is this coin?



a. **Circle**

b. **Square**

16. Subtract:



a. 5

o. 🧳

17. What is 5 - 3?



a. 📜

o. 🚑

- 18. What month comes after November?
 - a. October

b. December

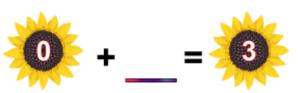
19. If today is Saturday, what day will it be after 2 days?

Monday

- b. **Tuesday**
- 20. Which day comes after Tuesday?
 - Wednesday
- **Monday**

Avance (Each Question is 2 Marks)

21. Find the missing number:



22. What comes after 0?



23. Arrange the following from smallest to greatest:

















24. Fill in the blank:







25. Find the missing number:







Answer Key

1. a 2. b 3. a 4. b 5. a 6. b 7. a 8. b 9. b 10. a 11. a 12. b 14. b 13. a 15. a 16. b 17. a 18. b 19. a 20. a 21. b 25. b 22. a 23. b 24. a