

Guidelines for analyzing the Mathematics CUPA-2017 for Class-V

Assessment for the whole class

❖ Place Value

Q no. **1 (ii), 2, 6, 19, 24, 40** are assessing knowledge, understanding and logic for place value. Create two categories of learners: Those who score up to 50% and those scoring more than 50%.

- Score of less than 50% indicates that the student has still to understand the concept of place value and needs **remedial action** by teacher.
- Score of more than 50% depicts the student has some understanding of the concept of place value and needs to work on it further.

❖ Numbers and Number Operations (including Fractions, Factors & Multiples)

Q. no **1(v), 3, 5, 8, 9, 10, 11, 25, 28, 31, 36, 39, 45, 47, 48** are focusing on assessing knowledge, understanding, procedural skills and logic about numbers and number operations. As understanding of numbers and number operations are very basic for learning mathematics, the students' scores may be analyzed as follows:

- Score below 60% needs careful reassessment and remedial action on the part of the teacher.
- Score above 60% would mean that some of the students may need some support from teachers for mastering number and number operations.
- Q. no **33, 42**, if not done properly depicts shallow understanding of algorithms.

❖ Geometry

Q. no **1(i), 4, 12, 13, 16, 17, 27, 30, 34** assess various aspects of geometry, its knowledge, understanding and application.

- Scores of up to 50% marks implies that students still need to work on their understanding and visualization of geometry.
- Scores of more than 50% would mean that the students may need some support in understanding geometrical concepts from the teacher.

❖ Measurement

Q. no **1(iii),(iv), 14, 15, 18, 20, 22, 23, 38** assess measurement of various physical attributes like length, weight and capacity and time. As measurement is applied in day to day life, knowledge, understanding and skill to apply them is needed. The above questions assess the same.

- A score of 40% and below should be a cause of concern for the teachers and remedial action should immediately be taken.

- Score of 40% to 70% implies that students are yet to master measurement and need support from the teacher.
- Score of 70% to 100% clearly indicate that the students have knowledge and understanding of the measurement and are ready for more challenging assignments.

❖ **Data Handling**

Q. no. **37, 44** may be assessed individually to find out how each student has understood and able to interpret the given information/data.

❖ **Special attention**

Q. no. **7, 21, 41, 43**

These questions assess and focus students' ability to observe patterns and based on the observations creates a rule.

Identify the students who are able to do that (as it is a higher order skill). Such students should be encouraged to take more complex assignments which will help to improve their mathematical skills further.