

**PERIODICAL TEST**  
**MATH 4- QUARTER 2**  
**TABLE OF SPECIFICATION**

| COMPETENCIES/OBJECTIVES                                                                                                                                                                | No.<br>of<br>Days<br>Spent | Weight | No.<br>of<br>Items | COGNITIVE PROCESS<br>DIMENSION |          |          |    |           |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|--------------------|--------------------------------|----------|----------|----|-----------|---|
|                                                                                                                                                                                        |                            |        |                    | R                              | U        | AP       | AN | E         | C |
|                                                                                                                                                                                        |                            |        |                    | EASY                           |          | AVERAGE  |    | DIFFICULT |   |
|                                                                                                                                                                                        |                            |        |                    | ITEM PLACEMENT                 |          |          |    |           |   |
| 1. Multiplying numbers with and without regrouping:<br>a. 3- to 4-digit numbers by a 1-digit number, and<br>b. 2- to 3-digit numbers by 2-digit numbers, with products up to 1 000 000 |                            | 15%    | 6                  | 1,2                            | 3,4      | 34,40    |    |           |   |
| 2. Estimate the result of multiplying two numbers where the product is less than 1 000 000.                                                                                            |                            | 7.5%   | 3                  |                                |          | 5,6,35   |    |           |   |
| 1. Solve multi-step problems involving one or more of the four operations with results of calculations up to 1,000,000, including problems involving money.                            |                            | 5%     | 2                  |                                |          | 7,8      |    |           |   |
| 2. Divide two numbers with and without regrouping 3- to 4-digit numbers by 1-digit numbers                                                                                             |                            | 7.5%   | 3                  |                                | 9        | 37,38    |    |           |   |
| 1. Divide two numbers with and without regrouping 2- to 3-digit numbers by 2-digit numbers.                                                                                            |                            | 2.5%   | 1                  |                                | 10       |          |    |           |   |
| 2. Estimate the quotient when dividing 3- to 4-digit dividends by 1- to 2-digit divisors, by first estimating the dividends and divisors using multiples of 10                         |                            | 7.5%   | 3                  |                                |          | 11,12,39 |    |           |   |
| 1. Perform two or more different operations by applying the MDAS rules.                                                                                                                |                            | 7.5%   | 3                  |                                |          | 13,14,36 |    |           |   |
| 2. Represent situations involving one or more of the four operations using a number sentence.                                                                                          |                            | 2.5%   | 1                  |                                | 15       |          |    |           |   |
| 1. Convert common units of measure from larger to smaller units, and vice versa:                                                                                                       |                            | 7.5%   | 3                  |                                | 16,17,18 |          |    |           |   |

|                                                                                                                                                                                                                                                                                            |  |              |           |       |       |       |                      |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|-----------|-------|-------|-------|----------------------|--|--|
| a. meter and centimeter, b. kilometer and meter, c. kilogram and gram, d. gram and milligram, and e. liter and milliliter.                                                                                                                                                                 |  |              |           |       |       |       |                      |  |  |
| 2. Solve problems involving the conversion of units of length, mass, and capacity.<br>1. Convert time measures from smaller to larger units, and vice versa:<br>a. seconds to minutes, b. minutes to hours, c. hours to days, d. days to weeks e. weeks to months, and f. months to years. |  | <b>7.5%</b>  | <b>3</b>  | 20,21 | 19    |       |                      |  |  |
| 2. Solve problems involving conversion of time<br>3. Find the elapsed time in hours and minutes<br>4. Solve word problems involving elapsed time in hours and minutes                                                                                                                      |  | <b>5%</b>    | <b>2</b>  |       |       | 22,23 |                      |  |  |
| 1. Determine the basic concepts of fractions.                                                                                                                                                                                                                                              |  | <b>2.5%</b>  | <b>1</b>  |       | 24    |       |                      |  |  |
| 2. Differentiate a proper fraction from an improper fraction and mixed numbers.<br>3. Identify a given fraction as proper fraction, an improper fraction, and a mixed number.                                                                                                              |  | <b>2.5%</b>  | <b>1</b>  |       | 25    |       |                      |  |  |
| 4. Change improper fractions into mixed numbers, and vice versa.                                                                                                                                                                                                                           |  | <b>5%</b>    | <b>2</b>  |       | 26,27 |       |                      |  |  |
| 6. Determine similar and dissimilar fractions                                                                                                                                                                                                                                              |  | <b>2.5%</b>  | <b>1</b>  |       | 28    |       |                      |  |  |
| 7. Add and subtract similar fractions two proper fractions, two mixed numbers, a mixed number and a proper fraction, a whole number and a proper fraction, and a whole number and a mixed number.                                                                                          |  | <b>12.5%</b> | <b>5</b>  |       |       |       | 29,30<br>31,32<br>33 |  |  |
| <b>TOTAL</b>                                                                                                                                                                                                                                                                               |  | <b>100%</b>  | <b>40</b> |       |       |       |                      |  |  |