**LESSON DEVELOPMENT ONE**

**APPLICATIONS OF RATIO**

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| **STAGE/TIME** | **TEACHER’S ACTIVITIES** | **LEARNER'S ACTIVITIES – MIND/HANDS ON** | **LEARNING POINTS** |
| **Step 1**  **Introduction**  **(5 minutes)** | Ask pupils to copy and complete the following –  5 : 15 = \_\_\_ : 3  \_\_\_ : 12 = 4 : 3 | Expected response –  5 : 15 = **1** : 3  **16** : 12 = 4 : 3 | Linking the Previous knowledge to the new lesson |
| **Step 2**  **Development**  **(5 minutes)**  **Grouping** | 1. Groups the learners into four groups – A, B, C, and D.  2. Guide the learners to choose a leader and secretary for your group.  3. Gives each group learning materials – Flash cards. | 1. Belong to a group.  2. Choose their leader and secretary.  3. Received learning materials for their group. | Learner’s group, leader and secretary confirmed. |
| **Step 3**  **Development**  **(10 minutes)** | Guide the pupils –  Increase 90 in the ratio of 4 : 3. | 4 : 3 = 4/3  = (4 x 90)/3  = 360/3  = 120  90 + 120 = 210 | Increase by certain ratio |
| Decrease 3600 in the ratio of 10 : 5. | 5 : 10 = 5/10  = (5 x 3600)/10  = 5 x 360  = 1800  = 3600 – 1800 = 1800 | Decrease by certain ratio |
| **Step 4**  **Development**  **(15 minutes)** | Guide the pupils to use ratio to share things between two or more people.  A 50 kg bag of bean is shared between Mrs. Segun and Mrs Michael in the ratio of 2 : 3.  **Guided Instructions**  Identify each person with her are portion.  Add the two ratio together.  Divide the total ratio by 50 kg.  Multiple the result by each person portion. | Follow the teacher’s lead.  Read the question and do as the teacher instructed.  Mrs. Segun – ratio 2 and Mrs. Michael ratio 3.  Ratio 2 + 3 = 5  (50 kg)/5 = 10  Mrs. Segun = 10 kg x 2 = 20 kg. Mrs. Michael = 10 kg x 3 = 30 kg. | Sharing by ratio |
| Mr. Alabi is a farmer. He spends the 24 hours in a day in this ratio, working : resting = 5 : 7.  How many hours does he spend a) working b) resting? | Groups discussion | Groups work |
| **Step 5**  **Development**  **(5 minutes)** | Asks each group to present their answers so that you can compare responses with those in other groups.  Call two or more representatives for presentation. | Presentation | Presentation |
| **Step 6**  **Conclusion**  **(5 minutes)** | To conclude the lesson, the teacher revises the entire lesson and ask the key questions. | The learners listen, ask and answer questions. | Lesson Evaluation and Conclusion |