**LESSON DEVELOPMENT TWO**

 **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)** | The ratio of boys to girls is 6 : 5. If the total number of boys is 24,find the equivalent ratio of 6 : 5 = 24 : \_\_\_\_. Teacher’s remark – the number of girls in the class is 20. | 6 : 5 = **24** : \_\_\_\_6 : 5 = **6 x 4** : 5 x \_\_\_6 x 4 : **5 x 4** = 24 : **20**Listen to the teacher’s remark.  | 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 – course books with series of questions on applications of ratio. NMM Book 6. | 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 to interpret each of the following questions in ratio. Books are sold at 3 for  ₦25. Praise bought 9 books. How much did she pay?The ratio of teachers to pupils in a school is 1 : 5. How many teachers are in the school if the number of pupils is 100?Note – Let’s the pupils figure out the equivalent ratio.  | Follow the teacher’s instructions.1. Books (3 : 9) = Price (₦25 : ₦\_\_\_\_) 3 : 9 = ₦25 : ₦\_\_\_\_3 x 1 : 3 x 3 = ₦25 x 1 : ₦25 x 3 3 : 9 = ₦25 : ₦75Therefore, the cost of 9 books is ₦75. Teacher’s/Pupil’s ratio is 1 : 5 = \_\_\_\_ : 1001 : 5 = \_\_\_\_ : 5 x 201 x 20 : 5 x 20 = 20 : 200.Therefore, there are 20 teachers in the school.  | Application of Ratio  |
| **Step 4****Development****(10 minutes)** | In a school setting, the ratio of girls to boys was 5 : 4. There were 40 girls?[ a ] How many are boys?[ b ] How many pupils were there all together?[ c ] What is the ratio of boys to girls?[ d ] What is the ratio of boys to total number of pupils in the school?Note – monitor the groups activities.  | a. Girls : Boys = 5 : 45 : 4 = \_\_\_\_ : 405 : 4 = 5 x \_\_\_\_ : 4 x 105 x 10 : 4 x 10 = 50 : 405 : 4 = 50 : 40b. The total umber of pupils in school is 50 girls + 40 boys = 90 pupils. c. Ratio of boys to girls = 4 : 5.d. Ratio of boys to the total number of pupils in school is 50 : 90 = 5 x 10 : 9 x 10= 5 : 9. |  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. **KEY QUESTIONS – QUANTITATIVE REASONING****Copy and complete the following.** **Sample – 10 : 5 = 5 : 1 = 50 = 25**1. \_\_\_\_ : 12 = 9 : 42. 3 : 6 = 9 : \_\_\_\_3. 2 : \_\_\_\_ = 6 : 404. 10 : 4 = \_\_\_\_ : 85. 1 : \_\_\_\_ = 6 : 24 | The learners listen, ask and answer questions. | Lesson Evaluation and Conclusion  |