**MATHEMATICS SCHEMES OF WORK FOR CLASS EIGHT TERM ONE - 2021**

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| **WK** | **LES** | **TOPIC** | | **SUB-TOPIC** | **OBJECTIVES** | | **T/L. ACTIVITIES** | **T/L AIDS** | **REFERENCE** | | **REMARKS** |
| **1** | 1. | **NUMBERS** | | Place value and total value | By the end of the lesson the learner should be able to identify the place value and total value of digits from ones to tens of millions. | | -Explanation  -Demonstration  - -Working out exercises | -Place value chart  -Chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –pg. 1-2 | |  |
| 2. | **NUMBERS** | | Numbers in words | By the end of the lesson the learner should be able to read and write numbers in words correctly.(1- 999,999) | | -Reading and writing numbers in words  - Working out exercises | -Chalk board  - | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 2 | |  |
| 3. | **NUMBERS** | | Numbers in words | By the end of the lesson the learner should be able to read and write numbers in words correctly. (1,000,000 – 10,000,000) | | Reading and writing numbers in words  - Working out exercises | Flash cards | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 2 | |  |
| 4. | **NUMBERS** | | Numbers in words | By the end of the lesson the learner should be able to read and write numbers in words correctly. (10,000, 000 – 999,999,999) | | Reading and writing numbers in words  - Working out exercises | -Examples in pupils text book  -Chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 2 | |  |
| 5. | **NUMBERS** | | Numbers in  symbols | By the end of the lesson the learner should be able to read and write numbers in symbols correctly. | | Reading and writing numbers in symbols  - Working out exercises | Examples in pupils text book  -Chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 2 | |  |
| 6. | **NUMBERS** | | Numbers in  symbols | By the end of the lesson the learner should be able to read and write numbers in symbols correctly. | | Reading and writing numbers in symbols  - Working out exercises | Examples in pupils text book  -Chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 2 | |  |
| 7. | **NUMBERS** | | Numbers in  symbols | By the end of the lesson the learner should be able to read and write numbers in symbols correctly. | | Reading and writing numbers in symbols  - Working out exercises | -Chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg.2 | |  |
| 2 | 1. | **NUMBERS** | | Squares | By the end of the lesson the learner should be able to work out correctly squares of numbers( 2- digits) | | -Explanation  -Demonstration  -Asking & answering questions  -Working out exercises | -Examples on chalkboard and pupils text books. | Pimary mathematics: pupils book 8 (2005 new edition) JKF –pg. 11-12 | |  |
| 2. | **NUMBERS** | | Squares | By the end of the lesson the learner should be able to work out correctly squares of numbers( 3- digits) | | -Explanation  -Demonstration  -Asking & answering questions  -Working out exercises | -Examples on chalkboard and pupils text books. | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 12-13 | |  |
| 3. | **NUMBERS** | | Square root | By the end of the lesson the learner should be able to work out square root of perfect squares. | | -Explanation  -Demonstration  -Asking & answering questions  -Working out exercises | -Examples on chalkboard and pupils text books. | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 13 -14 | |  |
| 4. | **NUMBERS** | | Square root | By the end of the lesson the learner should be able to work out square root of perfect squares(word problems) | | -Demonstrations  -Working out exercises | -chalkboard | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 13-14 | |  |
| 5 | **NUMBERS** | | Conversion of fractions to percentage and vice versa | By the end of the lesson the learner should be able to convert fractions to percentage and vice versa. | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 42-43 | |  |
| 6 | **NUMBERS** | | Conversion of fractions to percentage and vice versa | By the end of the lesson the learner should be able to convert fractions to percentage and vice versa. | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 42-43 | |  |
| 7 | **NUMBERS** | | Conversion of decimals to percentage and vice versa | By the end of the lesson the learner should be able to convert decimals to percentage and vice versa. | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 44-45 | |  |
| 3  4 | 1 | **NUMBERS** | | Conversion of decimals to percentage and vice versa | By the end of the lesson the learner should be able to convert decimals to percentage and vice versa. | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 44-45 | |  |
| 2 | OPERATIONS ON WHOLE NUMBERS | | -Addition | By the end of the lesson the learner should be able to work out sums involving addition of numbers. | | -Explanation  -Demonstration  -Asking & answering questions  -Working out exercises | -Examples on chalk board | Pimary Mathematics: pupils book 8(2005 new edition) JKF –pg.3-4 | |  |
| 3 | OPERATIONS ON WHOLE NUMBERS | | - Subtraction | By the end of the lesson the learner should be able to work out problems involving subtraction of numbers | | Explanation  -Demonstration  - -Working out exercises | -Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 8 | |  |
| 4 | OPERATIONS ON WHOLE NUMBERS | | Multiplication | By the end of the lesson the learner should be able to work out sums involving multiplication of numbers | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 5 | |  |
| 5 | OPERATIONS ON WHOLE NUMBERS | | Multiplication | By the end of the lesson the learner should be able to work out sums involving multiplication of numbers | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 5 | |  |
| 6 | OPERATIONS ON WHOLE NUMBERS | | Division | By the end of the lesson the learner should be able to work out sums involving division of numbers | | Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 5-6 | |  |
| 7 | OPERATIONS ON WHOLE NUMBERS | | Division | By the end of the lesson the learner should be able to work out sums involving division of numbers | | Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 5-6 | |  |
| 1 | OPERATIONS ON WHOLE NUMBERS | | Combined operations | By the end of the lesson the learner should be able to work out correctly sums involving combined operations | | -Demonstration  -Working out exercises | - Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 6-7 | |  |
| 2 | OPERATIONS ON WHOLE NUMBERS | | Combined operations | By the end of the lesson the learner should be able to work out correctly exercises involving addition and subtraction (word problems) | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 8-10 | |  |
| 3 | OPERATIONS ON WHOLE NUMBERS | | Combined operations | By the end of the lesson the learner should be able to work out correctly exercises involving addition and subtraction (word problems) | | -Demonstration  -Asking & answering questions  -Working out exercises | - Examples on chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 8-10 | |  |
| 4 | OPERATIONS ON WHOLE NUMBERS | | -Number patterns | By the end of the lesson the learner should be able to work out exercises involving number patterns. | | -Demonstrations  -Working out exercises | -chalkboard | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 15-16 | |  |
| 5 | OPERATIONS ON WHOLE NUMBERS | | -Magic squares | By the end of the lesson the learner should be able to solve magic squares. | | Demonstrations  -Working out exercises | -Examples on the chalkboard | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 15-16 | |  |
| 6 | OPERATIONS ON WHOLE NUMBERS | | Magic squares | By the end of the lesson the learner should be able to solve magic squares. | | Demonstrations  -Working out exercises | -Examples on the chalkboard | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 15-16 | |  |
| 7 | OPERATIONS ON WHOLE NUMBERS | | -Puzzles | By the end of the lesson the learner should be able to solve mathematical puzzles. | | Demonstrations  -Working out exercises | -Examples on the chalkboard | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 16 | |  |
| **5** | 1. | OPERATIONS ON WHOLE NUMBERS | | Addition of fractions | By the end of the lesson the learner should be able to work out exercises involving addition of fractions. | | -Explanation  -Demonstration  -Working out exercises | -Chalkboard | Primary mathematics: pupils book 8 (2005 new edition) JKF –pg 17-18 | |  |
| 2. | OPERATIONS ON WHOLE NUMBERS | | Addition of fractions | By the end of the lesson the learner should be able to work out exercises involving addition of fractions.( mixed numbers) | | Explanation  -Demonstration  -Asking & answering questions  -Working out exercises | Chalkboard  -Examples in pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 17-18 | |  |
| 3. | OPERATIONS ON WHOLE NUMBERS | | -Subtraction of fractions | By the end of the lesson the learner should be able to work out correctly exercises involving subtraction of fractions. | | Explanation  -Demonstration  -Asking & answering questions  -Working out exercises | Chalkboard  -Examples in pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg.18 | |  |
| 4. | OPERATIONS ON WHOLE NUMBERS | | Subtraction of fractions | By the end of the lesson the learner should be able to work out correctly exercises involving subtraction of fractions.( mixed numbers) | | Explanation  -Demonstration  - -Working out exercises | Chalkboard  -Examples in pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 19 | |  |
| 5. | OPERATIONS ON WHOLE NUMBERS | | Multiplication of fractions | By the end of the lesson the learner should be able to work out exercises involving multiplication of fractions. | | Explanation  -Demonstration  -Asking & answering questions  -Working out exercises | Chalkboard  -Examples in pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 20-21 | |  |
| 6. | OPERATIONS ON WHOLE NUMBERS | | Division of fractions | By the end of the lesson the learner should be able to work out exercises involving division of fractions | | Explanation  -Demonstration  -Working out exercises | Chalkboard  -Examples in pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 21 | |  |
| 7. | OPERATIONS ON WHOLE NUMBERS | | Division of fractions | By the end of the lesson the learner should be able to work out exercises involving division of fractions | | Explanation  -Demonstration  -Working out exercises | Chalkboard | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 22 | |  |
|  | **HALF TERM** | | | | | | | | | | OPERATIONS ON WHOLE NUMBERS |
| **6** | 1. | OPERATIONS ON WHOLE NUMBERS | Combined operations on fractions | | By the end of the lesson the learner should be able to work out exercises involving combined operations on fractions. | --Demonstration  -Asking & answering questions  -Working out exercises | | -Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –pg. 23 | |  |
| 2. | OPERATIONS ON WHOLE NUMBERS | Combined operations on fractions | | By the end of the lesson the learner should be able to work out exercises involving combined operations on fractions. | --Demonstration  -Asking & answering questions  -Working out exercises | | -Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 23 | |  |
| 3. | OPERATIONS ON WHOLE NUMBERS | Combined operations on fractions | | By the end of the lesson the learner should be able to work out exercises involving operations on fractions. ( word problems) | --Demonstration  -Asking & answering questions  -Working out exercises | | -Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 25 | |  |
| 4. | OPERATIONS ON WHOLE NUMBERS | Combined operations on fractions | | By the end of the lesson the learner should be able to work out exercises involving operations on fractions. ( word problems) | --Demonstration  -Asking & answering questions  -Working out exercises | | -Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 26 | |  |
| 5. | OPERATIONS ON WHOLE NUMBERS | Combined operations on fractions | | By the end of the lesson the learner should be able to work out exercises involving operations on fractions. ( word problems) | --Demonstration  -Asking & answering questions  -Working out exercises | | -Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 27-28 | |  |
| 6. | OPERATIONS ON WHOLE NUMBERS | Squares of fractions | | By the end of the lesson the learner should be able to work out squares of fractions | Demonstration  -Asking & answering questions  -Working out exercise | | -Examples on the chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 28-29 | |  |
| 7. | OPERATIONS ON WHOLE NUMBERS | Square root of fractions | | By the end of the lesson the learner should be able to work out square root of fractions | Demonstration  -Asking & answering questions  -Working out exercises | | Examples on the chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 29-30 | |  |
| **7** | 1. | **FRACTION-S** | Sequences involving fractions | | By the end of the lesson the learner should be able to complete sequences involving fractions. | Working out exercises | | Examples on the chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –pg.31 | |  |
| 2. | **FRACTION-S** | Place value & total value of decimals | | By the end of the lesson the learner should be able to recognize place value and total value of decimals. | Working out exercises | | Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 32 | |  |
| 3. | **FRACTION-S** | Addition and subtraction of decimals | | By the end of the lesson the learner should be able to work out exercises involving addition and subtraction of decimals. | -Working out exercises | | Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 33-34 | |  |
| 4. | **FRACTION-S** | Addition and subtraction of decimals | | By the end of the lesson the learner should be able to work out exercises involving addition and subtraction of decimals.(word problems) | -Working out exercises | | Examples on chalkboard and pupils text book | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 33-4 | |  |
| 5. | **FRACTION-S** | -Multiplication of decimals | | By the end of the lesson the learner should be able to work out exercises involving multiplication of decimals. | -Working out exercises | | -Examples on the chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 35-37 | |  |
| 6 | **FRACTION-S** | -Division of decimals | | By the end of the lesson the learner should be able to work out exercises involving division of decimals. | -Working out exercises | | -Examples on the chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 36-37 | |  |
| 7 | **FRACTION-S** | -Combined operations on decimals | | By the end of the lesson the learner should be able to work out exercises involving combined operations on decimals. | -Working out exercises | | -Examples on the chalk board | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 37-39 | |  |
| **8** | 1. | **DECIMALS** | Squares of decimals | | By the end of the lesson the learner should be able to work out squares of decimals | -Demonstration  -Asking & answering questions  -Working out exercises | | - Examples on chalkboard and pupils text book | | Pimary mathematics: pupils book 8(2005 new edition) JKF –pg. 39-40 |  |
| 2. | **DECIMALS** | Square roots of decimals | | By the end of the lesson the learner should be able to work out square roots of decimals | Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 40-41 |  |
| 3. | **DECIMALS** | Conversion of fractions into decimals | | By the end of the lesson the learner should be able to convert fractions into decimals. | Working out exercises | | - Examples on chalkboard and pupils text book | | ‘’  Pg. 40-41 |  |
| 4. | **DECIMALS** | Conversion of decimals into fractions | | By the end of the lesson the learner should be able to convert decimals into fractions. | Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg.41 |  |
| **9** | 5 | **DECIMALS** | Percentage increase | | By the end of the lesson the learner should be able to work out percentage increase. | --Demonstration  -Asking & answering questions  -Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8(2005 new edition) JKF –pg. 45-47 |  |
| 6 | **DECIMALS** | Percentage decrease | | By the end of the lesson the learner should be able to work out percentage decrease. | --Demonstration  -Asking & answering questions  -Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 47-48 |  |
| 7 | **DECIMALS** | Percentage increase & decrease | | By the end of the lesson the learner should be able to work out percentage increase & decrease | --Demonstration  -Asking & answering questions  -Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 49-50 |  |
| 1 | **DECIMALS** | Percentage increase & decrease | | By the end of the lesson the learner should be able to work out percentage increase & decrease | --Demonstration  -Asking & answering questions  -Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 51 |  |
| 2 | **DECIMALS** | Sequences involving decimals | | By the end of the lesson the learner should be able to complete sequences involving decimals. | --Demonstration  -Asking & answering questions  -Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg. 51-52 |  |
| 3 | **MEASURE-MENT** | Length  -Conversions | | By the end of the lesson the learner should be able to convert measures from one unit to another correctly | --Demonstration  -Asking & answering questions  -Working out exercises | | - Examples on chalkboard and pupils text book | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg 88 |  |
| 4 | **MEASURE-MENT** | Operations on length | | By the end of the lesson the learner should be able to solve problems involving operations on length | -Working out exercises | | - Examples on chalkboard | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg88 |  |
| 5 | **MEASURE-MENT** | Operations on length | | By the end of the lesson the learner should be able to solve problems involving operations on length | Working out exercises | | Examples on chalkboard | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg89 |  |
| 6 | **MEASURE-MENT** | Perimeter and circumference | | By the end of the lesson the learner should be able to work out perimeter different shapes | Working out exercises | | Examples on chalkboard | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg90 |  |
| 7 | **MEASURE-MENT** | ‘’ | | By the end of the lesson the learner should be able to work out perimeter different shapes and figures | Working out exercises | | Examples on chalkboard | | Primary mathematics: pupils book 8 (2005 new edition) JKF –Pg91 |  |
| **10** | **END OF TERM ONE EXAMS** | | | | | | | | | | |