**2019 JKF PRIMARY MATHEMATICS SCHEME OF WORK CLASS 6**

**Reference BOOKS:**

JKF: New Syllabus Primary Mathematics Pupils book 6

**PRIMARY MATHEMATICS STANDARD 6 SCHEMES OF WORK: TERM ONE**

|  |  |  |  |  |  |  |  |  |
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| **WEEK** | **LESSON** | **TOPIC** | **SUB TOPIC** | **OBJECTIVES** | **TEACHING/LEARNING ACTIVITIES** | **LEARNING RESOURCES** | **REFERENCES** | **REMARKS** |
| **1** | **1** | Whole numbers | Place values of numbers | By the end of this topic, the pupils should be able to recognize and identify the place values and total values of numbers, read and write numbers in words and in figures up to hundreds of millions | Revision of place values up to hundreds of thousands  Counting in thousands | Place value tables and columns | JKF student book pages 2-4  Progressive Pupil’s Book pages 2-4 Teacher’s Book pages 1-3 |  |
|  | **2** | Whole numbers | Place values of numbers | By the end of this topic, the pupils should be able to recognize and identify the place values and total values of numbers, read and write numbers in words and in figures up to hundreds of millions | Revision of place values up to hundreds of thousands  Counting in thousands | Place value tables and columns | JKF student book pages 2-4  Progressive Pupil’s Book pages 2-4 Teacher’s Book pages 1-3 |  |
|  | **3** | Whole numbers | Place values of numbers | By the end of this topic, the pupils should be able to recognize and identify the place values and total values of numbers, read and write numbers in words and in figures up to hundreds of millions | Revision of place values up to hundreds of thousands  Counting in thousands | Place value tables and columns | JKF student book pages 2-4  Progressive Pupil’s Book pages 2-4 Teacher’s Book pages 1-3 |  |
|  |  | Whole numbers | Place values of numbers | By the end of this topic, the pupils should be able to recognize and identify the place values and total values of numbers, read and write numbers in words and in figures up to hundreds of millions | Revision of place values up to hundreds of thousands  Counting in thousands | Place value tables and columns | JKF student book pages 2-4  Progressive Pupil’s Book pages 2-4 Teacher’s Book pages 1-3 |  |
|  | **5** |  | Rounding off to the nearest thousand | By the end of this topic, the pupils should be able to round off numbers to the nearest thousand | Identification of the place value of whole numbers Drawing number lines Estimating and rounding off numbers | Place value tables,  number lines | JKF student book pages 2-4  Pupil’s Book page 5 Teacher’s Book page 4 |  |
|  | **6** |  | Rounding off to the nearest thousand | By the end of this topic, the pupils should be able to round off numbers to the nearest thousand | Identification of the place value of whole numbers Drawing number lines Estimating and rounding off numbers | Place value tables,  number lines | JKF student book pages 2-4  Pupil’s Book page 5 Teacher’s Book page 4 |  |
| **2** | **1** |  | Divisibility by 8 and | By the end of this topic, the pupils should be able to  apply the divisibility test for 8 to determine numbers that are divisible by 8 | Listing multiples of numbers  Dividing numbers | Multiplication tables | JKF student book pages 9-10  Pupils’ Book page 6 Teacher’s Book pages 4-5 |  |
|  | **2** |  | Divisibility by 8 and | By the end of this topic, the pupils should be able to  apply the divisibility test for 8 to determine numbers that are divisible by 8 | Listing multiples of numbers  Dividing numbers | Multiplication tables | JKF student book pages 9-10  Pupils’ Book page 6 Teacher’s Book pages 4-5 |  |
|  | **3** |  | Divisibility by 8 and | By the end of this topic, the pupils should be able to  apply the divisibility test for 8 to determine numbers that are divisible by 8 | Listing multiples of numbers  Dividing numbers | Multiplication tables | JKF student book pages 9-10  Pupils’ Book page 6 Teacher’s Book pages 4-5 |  |
|  | **4** |  | Divisibility by 8 and | By the end of this topic, the pupils should be able to  apply the divisibility test for 8 to determine numbers that are divisible by 8 | Listing multiples of numbers  Dividing numbers | Multiplication tables | JKF student book pages 9-10  Pupils’ Book page 6 Teacher’s Book pages 4-5 |  |
|  | **5** |  | Squares of numbers | By the end of this topic, the pupils should be able to identify and to work out squares of up to 3-digit numbers, list the square numbers between 1 and 100 and find the square of a number | Multiplying numbers Listing numbers | Multiplication tables | JKF student book pages 10-11  Pupil’s book pages 7-8 Teacher’s Book pages 5-6 |  |
|  | **6** |  | Squares of numbers | By the end of this topic, the pupils should be able to identify and to work out squares of up to 3-digit numbers, list the square numbers between 1 and 100 and find the square of a number | Multiplying numbers Listing numbers | Multiplication tables | JKF student book pages 10-11  Pupil’s book pages 7-8 Teacher’s Book pages 5-6 |  |
|  | **7** |  | Squares of numbers | By the end of this topic, the pupils should be able to identify and to work out squares of up to 3-digit numbers, list the square numbers between 1 and 100 and find the square of a number | Multiplying numbers Listing numbers | Multiplication tables | JKF student book pages 10-11  Pupil’s book pages 7-8 Teacher’s Book pages 5-6 |  |
| **3** | **1** |  | Square roots of numbers | By the end of this topic, the pupils should be able to work out the square roots of perfect squares up to 3-digit numbers | Multiplying numbers Dividing numbers | Multiplication tables, charts with lists of whole numbers up to 100 | JKF student book pages 11-12  Pupil’s Book pages 8-9 Teacher’s Book pages 6-7 |  |
|  | **2** |  | Square roots of numbers | By the end of this topic, the pupils should be able to work out the square roots of perfect squares up to 3-digit numbers | Multiplying numbers Dividing numbers | Multiplication tables, charts with lists of whole numbers up to 100 | JKF student book pages 11-12  Pupil’s Book pages 8-9 Teacher’s Book pages 6-7 |  |
|  | **3** |  | Square roots of numbers | By the end of this topic, the pupils should be able to work out the square roots of perfect squares up to 3-digit numbers | Multiplying numbers Dividing numbers | Multiplication tables, charts with lists of whole numbers up to 100 | JKF student book pages 11-12  Pupil’s Book pages 8-9 Teacher’s Book pages 6-7 |  |
|  | **4** | Addition and subtraction | Addition | By the end of this topic, the pupils should be able to add numbers up to millions with sums not exceeding 999 999 999 with and without carrying | Adding numbers  Aligning numbers in place value charts | Place value tables and charts, addition tables | JKF student book pages 11-12  Pupil’s Book pages 10-11  Teacher’s Book pages 11-12 |  |
|  | **5** | Addition and subtraction | Addition | By the end of this topic, the pupils should be able to add numbers up to millions with sums not exceeding 999 999 999 with and without carrying | Adding numbers  Aligning numbers in place value charts | Place value tables and charts, addition tables | JKF student book pages 11-12  Pupil’s Book pages 10-11  Teacher’s Book pages 11-12 |  |
|  | **6** | Square roots of numbers | By the end of this topic, the pupils should be able to work out the square roots of perfect squares up to 3-digit numbers | Multiplying numbers Dividing numbers | Multiplication tables, charts with lists of whole numbers up to 100 | JKF student book pages 11-12  Pupil’s Book pages 8-9 Teacher’s Book pages 6-7 | Square roots of numbers |  |
|  | **7** | Square roots of numbers | By the end of this topic, the pupils should be able to work out the square roots of perfect squares up to 3-digit numbers | Multiplying numbers Dividing numbers | Multiplication tables, charts with lists of whole numbers up to 100 | JKF student book pages 11-12  Pupil’s Book pages 8-9 Teacher’s Book pages 6-7 | Square roots of numbers |  |
| **4** | **1** |  | Subtraction | By the end of this topic, the pupils should be able to work out subtraction of numbers up to millions with and without borrowing | Subtracting numbers Aligning numbers in place value charts and tables | Place value tables, addition tables | JKF student book pages 11-12  Pupil’s Book pages 12-13 Teacher’s Book pages 12-13 |  |
|  | **2** |  | Subtraction | By the end of this topic, the pupils should be able to work out subtraction of numbers up to millions with and without borrowing | Subtracting numbers Aligning numbers in place value charts and tables | Place value tables, addition tables | JKF student book pages 11-12  Pupil’s Book pages 12-13 Teacher’s Book pages 12-13 |  |
|  | **3** |  | Subtraction | By the end of this topic, the pupils should be able to work out subtraction of numbers up to millions with and without borrowing | Subtracting numbers Aligning numbers in place value charts and tables | Place value tables, addition tables | JKF student book pages 11-12  Pupil’s Book pages 12-13 Teacher’s Book pages 12-13 |  |
|  |  |  |  |  |  |  |  |  |
|  | **4** |  | Multiplication | By the end of this topic, the pupils should be able to multiply up to 3-digit numbers by 3-digit numbers with products not exceeding 999 999 999 | Listing the multiples of numbers  Multiplying whole numbers | Multiplication tables | JKF student book pages 15-19  Pupil’s Book pages 14-15 Teacher’s Book pages 15-16 |  |
|  | **5** |  | Multiplication | By the end of this topic, the pupils should be able to multiply up to 3-digit numbers by 3-digit numbers with products not exceeding 999 999 999 | Listing the multiples of numbers  Multiplying whole numbers | Multiplication tables | JKF student book pages 15-19  Pupil’s Book pages 14-15 Teacher’s Book pages 15-16 |  |
|  | **6** |  | Multiplication | By the end of this topic, the pupils should be able to multiply up to 3-digit numbers by 3-digit numbers with products not exceeding 999 999 999 | Listing the multiples of numbers  Multiplying whole numbers | Multiplication tables | JKF student book pages 15-19  Pupil’s Book pages 14-15 Teacher’s Book pages 15-16 |  |
|  | **7** |  | Multiplication | By the end of this topic, the pupils should be able to multiply up to 3-digit numbers by 3-digit numbers with products not exceeding 999 999 999 | Listing the multiples of numbers  Multiplying whole numbers | Multiplication tables | JKF student book pages 15-19  Pupil’s Book pages 14-15 Teacher’s Book pages 15-16 |  |
| **5** | **1** |  | Division | By the end of this topic, the pupils should be able to divide up to 4-digit numbers by 2-digit numbers with the divisor less than the dividend | Listing the multiples of numbers  Dividing number | Multiplication tables | JKF student book pages 17-18  Pupil’s Book pages 16-19 Teacher’s Book pages 16-18 |  |
|  | **2** |  | Division | By the end of this topic, the pupils should be able to divide up to 4-digit numbers by 2-digit numbers with the divisor less than the dividend | Listing the multiples of numbers  Dividing number | Multiplication tables | JKF student book pages 17-18  Pupil’s Book pages 16-19 Teacher’s Book pages 16-18 |  |
|  | **3** |  | Division | By the end of this topic, the pupils should be able to divide up to 5-digit numbers by 2-digit numbers with the divisor less than the dividend | Listing the multiples of numbers  Dividing number | Multiplication tables | JKF student book pages 17-18  Pupil’s Book pages 16-19 Teacher’s Book pages 16-18 |  |
|  | **4** |  | Division | By the end of this topic, the pupils should be able to divide up to 5-digit numbers by 2-digit numbers with the divisor less than the dividend | Listing the multiples of numbers  Dividing number | Multiplication tables | JKF student book pages 17-18  Pupil’s Book pages 16-19 Teacher’s Book pages 16-18 |  |
|  | **5** |  | Division | By the end of this topic, the pupils should be able to divide up to 5-digit numbers by 2-digit numbers with the divisor less than the dividend | Listing the multiples of numbers  Dividing number | Multiplication tables | JKF student book pages 17-18  Pupil’s Book pages 16-19 Teacher’s Book pages 16-18 |  |
| **6** | **1** |  | Word problem | By the end of this topic, the pupils should be able to calculate numbers that are divided up to 5 digits, 2 digits. | Listing the multiples of numbers  Dividing number | Multiplication tables | JKF student book pages 17-18  Pupil’s Book pages 16-19 Teacher’s Book pages 16-18 |  |
|  | **2** |  | Number sequences | By the end of this topic, the pupils should be able to identify and recognize number sequences involving addition and subtraction | Adding numbers Subtracting number Identifying number sequences | Addition tables | JKF student book pages 19-21  Pupil’s Book page 13 Teacher’s Book page 13 |  |
|  | **3** |  | Number sequences | By the end of this topic, the pupils should be able to identify and recognize number sequences involving addition and subtraction | Adding numbers Subtracting number Identifying number sequences | Addition tables | JKF student book pages 19-21  Pupil’s Book page 13 Teacher’s Book page 13 |  |
|  | **4** |  | Number sequences | By the end of this topic, the pupils should be able to identify and recognize number sequences involving addition and subtraction | Adding numbers Subtracting number Identifying number sequences | Addition tables | JKF student book pages 19-21  Pupil’s Book page 13 Teacher’s Book page 13 |  |
|  | **5** |  | Number sequences | By the end of this topic, the pupils should be able to identify and recognize number sequences involving addition and subtraction | Adding numbers Subtracting number Identifying number sequences | Addition tables | JKF student book pages 19-21  Pupil’s Book page 13 Teacher’s Book page 13 |  |
|  | **6** |  | Least common multiple( L.C.M | By the end of this topic, the pupils should be able to work out the LCM of numbers | Dividing numbers Multiplying numbers Answering questions | Multiplication tables | JKF student book pages 22-23  Pupil’s Book pages 19-20 Teacher’s Book page 18 |  |
|  | **7** |  | Least common multiple( L.C.M | By the end of this topic, the pupils should be able to work out the LCM of numbers | Dividing numbers Multiplying numbers Answering questions | Multiplication tables | JKF student book pages 22-23  Pupil’s Book pages 19-20 Teacher’s Book page 18 |  |
| **7** |  |  |  | Revision test |  |  |  |  |
| **8** | **1** | FRACTIONS | Adding fractions | By the end of this topic, the pupils should be able to add up to three mixed numbers using LCM | Listing multiples of numbers  Listing divisors of numbers  Adding fractions  Finding the LCM AND G.C.D of numbers | Paper strips, fruits, cakes, etc. | JKF student book pages 26-27  Pupil’s Book pages 22-24 Teacher’s Book pages 21-22 |  |
|  | **2** | FRACTIONS | Adding fractions | By the end of this topic, the pupils should be able to add up to three mixed numbers using LCM | Listing multiples of numbers  Listing divisors of numbers  Adding fractions  Finding the LCM AND G.C.D of numbers | Paper strips, fruits, cakes, etc. | JKF student book pages 26-27  Pupil’s Book pages 22-24 Teacher’s Book pages 21-22 |  |
|  | **3** |  | Subtracting fraction | By the end of this topic, the pupils should be able to subtract up to three mixed numbers using LCM | Listing multiples of numbers  Listing divisors of numbers  Subtracting fractions  Finding the LCM of number | Paper strips, fruits, cakes, etc. | JKF student book pages 28-29  Pupil’s Book pages 24-26 Teacher’s Book pages 22-23 |  |
|  | **4** |  | Subtracting fraction | By the end of this topic, the pupils should be able to subtract up to three mixed numbers using LCM | Listing multiples of numbers  Listing divisors of numbers  Subtracting fractions  Finding the LCM of number | Paper strips, fruits, cakes, etc. | JKF student book pages 28-29  Pupil’s Book pages 24-26 Teacher’s Book pages 22-23 |  |
|  | **5** |  | Adding & Subtracting fractions | By the end of this topic, the pupils should be able to add up to three mixed numbers using LCM | Listing multiples of numbers  Listing divisors of numbers  Adding fractions  Finding the LCM AND G.C.D of numbers | Paper strips, fruits, cakes, etc. | JKF student book pages 30-31  Pupil’s Book pages 22-24 Teacher’s Book pages 21-22 |  |
|  | **6** |  | Adding & Subtracting fractions | By the end of this topic, the pupils should be able to add up to three mixed numbers using LCM | Listing multiples of numbers  Listing divisors of numbers  Adding fractions  Finding the LCM AND G.C.D of numbers | Paper strips, fruits, cakes, etc. | JKF student book pages 30-31  Pupil’s Book pages 22-24 Teacher’s Book pages 21-22 |  |
| **9** | **1** |  | Multiplying fractions | By the end of this topic, the pupils should be able to multiply a fraction by a fraction, and by a mixed number | Cutting into equal parts Counting parts of a fraction  Multiplying fractions | Paper strips, fruits, cakes, etc. | JKF student book pages 48-49  Pupil’s Book pages 24-26 Teacher’s Book pages 22-23 |  |
|  | **2** |  | Multiplying fractions | By the end of this topic, the pupils should be able to multiply a fraction by a fraction, and by a mixed number | Cutting into equal parts Counting parts of a fraction  Multiplying fractions | Paper strips, fruits, cakes, etc. | JKF student book pages 48-49  Pupil’s Book pages 24-26 Teacher’s Book pages 22-23 |  |
|  | **3** |  | Multiplying fractions | By the end of this topic, the pupils should be able to multiply a fraction by a fraction, and by a mixed number | Cutting into equal parts Counting parts of a fraction  Multiplying fractions | Paper strips, fruits, cakes, etc. | JKF student book pages 48-49  Pupil’s Book pages 24-26 Teacher’s Book pages 22-23 |  |
|  | **4** |  | Dividing a fraction by a whole number | By the end of this topic, the pupils should be able to divide a fraction by a whole number and vice versa | Cutting into equal parts Counting parts of a fraction  Dividing fractions | Paper strips, fruits, cakes, etc. | JKF student book pages 48-49  Pupil’s Book pages 29-30 Teacher’s Book pages 24-25 |  |
|  | **5** |  | Dividing a fraction by a whole number | By the end of this topic, the pupils should be able to divide a fraction by a whole number and vice versa | Cutting into equal parts Counting parts of a fraction  Dividing fractions | Paper strips, fruits, cakes, etc. | JKF student book pages 48-49  Pupil’s Book pages 29-30 Teacher’s Book pages 24-25 |  |
|  | **6** |  | Dividing a fraction by a whole number | By the end of this topic, the pupils should be able to divide a fraction by a whole number and vice versa | Cutting into equal parts Counting parts of a fraction  Dividing fractions | Paper strips, fruits, cakes, etc. | JKF student book pages 48-49  Pupil’s Book pages 29-30 Teacher’s Book pages 24-25 |  |
|  | **7** |  | Dividing a fraction by a whole number | By the end of this topic, the pupils should be able to divide a fraction by a whole number and vice versa | Cutting into equal parts Counting parts of a fraction  Dividing fractions | Paper strips, fruits, cakes, etc. | JKF student book pages 48-49  Pupil’s Book pages 29-30 Teacher’s Book pages 24-25 |  |
| **10** | **1** |  | Decimals and fractions | By the end of this topic, the pupils should be able to convert decimals to fractions | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **2** |  | Decimals and fractions | By the end of this topic, the pupils should be able to convert decimals to fractions | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **3** |  | Decimals and fractions | By the end of this topic, the pupils should be able to convert decimals to fractions | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **4** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **5** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **6** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **7** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
| **11** | **1** |  | Decimals and fractions | By the end of this topic, the pupils should be able to convert decimals to fractions | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **2** |  | Decimals and fractions | By the end of this topic, the pupils should be able to convert decimals to fractions | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **3** |  | Decimals and fractions | By the end of this topic, the pupils should be able to convert decimals to fractions | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **4** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **5** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **6** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
|  | **7** |  | Decimals and fractions | By the end of this topic, the pupils should be able to Fractions to decimals | Converting decimals to fractions and vice versa | Place value tables | JKF student book pages 48-49  Pupil’s Book pages 44-45 Teacher’s Book pages 35-36 |  |
| **13** | 1 | Percentage | The meaning of percentage | By the end of this topic, the pupils should be able to convert decimals and fractions to percentages and vice versa | Drawing a 100-square grid  Listing equivalent fractions  Converting fractions and decimals to percentage | 100-square grids, 100 counters | JKF student book pages 84-  Pupil’s Book pages 48-49 Teacher’s Book pages 41-42 |  |
|  | 2 | Percentage | The meaning of percentage | By the end of this topic, the pupils should be able to convert decimals and fractions to percentages and vice versa | Drawing a 100-square grid  Listing equivalent fractions  Converting fractions and decimals to percentage | 100-square grids, 100 counters | JKF student book pages 84-  Pupil’s Book pages 48-49 Teacher’s Book pages 41-42 |  |
|  | 3 | Percentage | The meaning of percentage | By the end of this topic, the pupils should be able to convert fractions to percentages and vice versa | Drawing a 100-square grid  Listing equivalent fractions  Converting fractions and decimals to percentage | 100-square grids, 100 counters | JKF student book pages 84-  Pupil’s Book pages 48-49 Teacher’s Book pages 41-42 |  |
|  | 4 | Percentage | The meaning of percentage | By the end of this topic, the pupils should be able to convert fractions to percentages and vice versa | Drawing a 100-square grid  Listing equivalent fractions  Converting fractions and decimals to percentage | 100-square grids, 100 counters | JKF student book pages 84-  Pupil’s Book pages 48-49 Teacher’s Book pages 41-42 |  |
|  | 5 |  | Converting fractions, decimals and percentages | By the end of this topic, the pupils should be able to convert fractions and decimals to percentages and vice versa | Converting fractions/decimals to percentages and vice versa | Multiplication tables, 100-square grids, 100 counters | JKF student book pages 84-86  Pupil’s Book pages 49-50 Teacher’s Book pages 42-43 |  |
|  | 6 |  | Converting fractions, decimals and percentages | By the end of this topic, the pupils should be able to convert fractions and decimals to percentages and vice versa | Converting fractions/decimals to percentages and vice versa | Multiplication tables, 100-square grids, 100 counters | JKF student book pages 84-86  Pupil’s Book pages 49-50 Teacher’s Book pages 42-43 |  |
| **14** |  |  |  | **REVISION FOR END OF TERM EXAMS** |  |  |  |  |