

GRADE 5 MODULE 4 Multiplication and division of Fractions and Decimal Fractions

Lesson 1	Measure and compare pencil lengths to the nearest $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{8}$ of an inch, and analyze the data through line plots
Lessons 2-3	interpret a fraction as a division
Lesson 4	Use tape diagrams to model fractions as division
Lesson 5	Solve word problems involving the division of whole numbers with answers in the form of fractions or whole numbers
Lesson 6	Relate fractions as division to fraction of a set
Lesson 7	Multiply any whole number by a fraction using tape diagrams
Lesson 8	Relate fraction of a set to the repeated addition interpretation of fraction multiplication
Lesson 9	Find a fraction of a measurement, and solve word problems
Lesson 10	Compare and evaluate expressions with parentheses
Lesson 11-12	Solve and create fraction word problems involving addition, subtraction, and multiplication
Lesson 13	Multiply unit fractions by unit fractions
Lesson 14	Multiply unit fractions by non-unit fractions
Lesson 15	Multiply non-unit fractions by non-unit fractions
Lesson 16	Solve word problems using tape diagrams and fractions-by-fraction multiplication
Lesson 17-18	Relate decimal and fraction multiplication
Lesson 19	Convert measures involving whole numbers, and solve multi-step word problems
Lesson 20	convert mixed unit measurements, and solve multi-step word problems
Lesson 21	Explain the size of the product and relate fraction and decimal equivalence to multiplying a fraction by 1
Lesson 22-23	Compare the size of the product to the size of the factors
Lesson 24	solve word problems using fraction and decimal multiplication
Lesson 25	Divide a whole number by a unit fraction



- Lesson 26 Divide a unit fraction by a whole number
- Lesson 27 Solve problems involving fraction division
- Lesson 28 Write equations and word problems corresponding to tape and number line diagrams
- Lesson 29 Connect division by a unit fraction to division by 1 tenth and 1 hundredth
- Lesson 30-31 Divide decimal dividends by non-unit decimal divisors
- Lesson 32 Interpret and evaluate numerical expressions including the language of scaling and fraction division
- Lesson 33 Create story contexts for numerical expressions and tape diagrams, and solve word problems