GRADE 3

Module 1 Properties of Multiplication and Division and Solving Problems

IXL skills

Topic A: Multiplication and the Meaning of the Factors

* E.1 Count equal groups
* E.2 Identify multiplication expressions for equal groups
* E.3 Write multiplication sentences for equal groups
* E.4 Relate addition and multiplication for equal groups
* E.5 Identify multiplication expressions for arrays
* E.6 Write multiplication sentences for arrays
* E.7 Make arrays to model multiplication
* N.9 Relate addition and multiplication

Topic B: Division as an Unknown Factor Problem

* I.1 Divide by counting equal groups
* I.2 Write division sentences for groups
* I.3 Relate multiplication and division for groups
* I.4 Write division sentences for arrays
* I.5 Relate multiplication and division for arrays

Topic C: Multiplication Using Units of 2 and 3

* A.3 Skip-counting
* F.3 Multiply by 2
* F.4 Multiply by 3

Topic D: Division Using Units of 2 and 3

Topic E: Multiplication and Division Using Units of 4

* F.5 Multiply by 4

Module 2 Place Value and Problem Solving with Units of Measure

Topic A: Time Measurement and Problem Solving

Topic B: Measuring Weight and Liquid Volume in Metric Units

* BB.14 Which metric unit of weight is appropriate?
* BB.19 Compare and convert metric units of volume

Topic C: Rounding to the Nearest Ten and Hundred

* P.1 Rounding - nearest ten or hundred only

Topic D: Two- and Three-Digit Measurement Addition Using the Standard Algorithm

* C.1 Add two numbers up to three digits
* C.3 Add two numbers up to three digits - word problems
* P.5 Estimate sums up to 1,000

Topic E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm

* D.1 Subtract numbers up to three digits
* D.3 Subtract numbers up to three digits - word problems
* P.8 Estimate differences up to 1,000

Module 3 Multiplication and Division with Units of 0, 1, 6-9, and Multiples of 10

Topic A: The Properties of Multiplication and Division

* G.5 Multiplication tables for 6, 7, 8, and 9
* G.8 Multiplication facts for 6, 7, 8, and 9: find the missing factor
* G.12 Multiplication facts up to 10: find the missing factor
* K.10 Division facts up to 10: find the missing number
* O.3 Solve for the variable: multiplication and division
* G.6 Multiplication facts for 6, 7, 8, and 9: true or false?

Topic B: Multiplication and Division Using Units of 6 and 7

* F.7 Multiply by 6
* F.8 Multiply by 7
* J.6 Divide by 6
* J.7 Divide by 7

Topic C: Multiplication and Division Using Units up to 8

* F.9 Multiply by 8
* H.6 Multiplication word problems
* J.8 Divide by 8
* L.5 Division word problems
* N.2 Understanding parentheses

Topic D: Multiplication and Division Using Units of 9 F.10 Multiply by 9

* J.9 Divide by 9

Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1

* F.1 Multiply by 0
* F.2 Multiply by 1
* J.1 Divide by 1
* N.6 Distributive property: find the missing factor

Topic F: Multiplication of Single-Digit Factors and Multiples of 10

* H.1 Multiply by a multiple of ten

Module 4 Multiplication and Area

Topic A: Foundations for Understanding Area

* FF.6 Find the area of figures made of unit squares
* FF.9 Create figures with a given area

Topic B: Concepts of Area Measurement

* FF.10 Find the area of rectangles and squares

Topic C: Arithmetic Properties Using Area Models

Topic D: Applications of Area Using Side Lengths of Figures

* FF.9 Create figures with a given area
* FF.10 Find the area of rectangles and squares
* FF.13 Find the area of rectangles:  word problems
* FF.15 Find the area between two rectangles
* FF.14 Find the area of complex figures