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Year 5 maths

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Place values and number sense

- A.1 Place value names up to millions
- A.2 Value of a digit
- A.3 Convert between standard and expanded form
- A.4 Convert between place values
- A.5 Place value review
- **A.6** Place value word problems
- Writing numbers up to 100,000 in words: convert words to digits
- A.8 Writing numbers up to 100,000 in words: convert digits to words
- A.9 Writing numbers up to one million in words: convert words to digits
- A.10 Writing numbers up to one million in words: convert digits to words
- A.11 Ordinal numbers to 100th
- A.12 Roman numerals
- A.13 Rounding: up to thousands place
- A.14 Rounding: up to hundred thousands place
- A.15 Rounding puzzles
- A.16 Even or odd: arithmetic rules
- A.17 Compare numbers up to one hundred thousand
- A.18 Compare numbers up to one million
- A.19 Put numbers in order: up to one hundred thousand
- A.20 Put numbers in order: up to one million

Addition

- **B.1** Properties of addition
- **B.2** Add using properties
- **B.3** Addition patterns over increasing place values
- **B.4** Add two three-digit numbers
- **B.5** Add two three-digit numbers: word problems
- **B.6** Complete the addition sentence: three-digit numbers
- **B.7** Balance addition equations: three-digit numbers
- B.8 Add three or more numbers with up to three digits each
- **B.9** Add numbers up to six digits
- **B.10** Add numbers up to six digits: word problems
- D 44 Addition on to all digital fill in

Integers

- L.1 Understanding integers
- L.2 Count on a number line up to 10 in both directions
- **L.3** Count on a number line up to 100 in both directions
- L.4 Graph integers on horizontal and vertical number lines
- **L.5** Compare integers
- L.6 Put integers in order

Equations and variables

- M.1 Write variable expressions
- M.2 Write variable expressions: word problems
- M.3 Evaluate variable expressions
- M.4 Write variable equations to represent word problems
- M.5 Solve for the variable: addition and subtraction
- M.6 Solve for the variable: multiplication and division
- M.7 Solve for the variable: addition, subtraction, multiplication and division
- M.8 Complete a table for a twovariable relationship
- M.9 Write a two-variable equation

Coordinate plane

- N.1 Objects on a coordinate plane
- N.2 Graph points on a coordinate plane
- N.3 Follow directions on a coordinate plane
- N.4 Coordinate planes as maps
- N.5 Direction to starting point

Data and graphs

- O.1 Read a table
- **0.2** Interpret tally charts
- O.3 Interpret line graphs
- **O.4** Create line graphs
- **O.5** Interpret bar graphs
- **0.6** Interpret bar graphs: multi-step problems
- O.7 Create bar graphs
- **O.8** Interpret bar graphs for grouped data
- O.9 Create bar graphs for grouped data

Add and subtract fractions with the same denominator

- AA.1 Decompose fractions multiple wavs
- AA.2 Add fractions with the same denominator using area models
- AA.3 Add fractions with the same denominator using bar models
- AA.4 Add fractions with the same denominator using number
- AA.5 Add fractions with the same denominator
- AA.6 Subtract fractions with the same denominator using area models
- AA.7 Subtract fractions with the same denominator using bar models
- AA.8 Subtract fractions with the same denominator using number lines
- AA.9 Subtract fractions with the same denominator
- AA.10 Add and subtract fractions with the same denominator using number lines
- **AA.11** Add and subtract fractions with the same denominator
- **AA.12** Add and subtract fractions with the same denominator: word problems
- AA.13 Add three or more fractions with the same denominator
- AA.14 Add three or more fractions with the same denominator: word problems
- AA.15 Add and subtract mixed numbers with the same denominator
- AA.16 Add and subtract mixed numbers with the same denominator: word problems
- AA.17 Complete addition and subtraction sentences with fractions

Add and subtract fractions with different denominators

- BB.1 Add up to 4 fractions with denominators of 10 and 100
- BB.2 Add fractions with different denominators using models
- **BB.3** Add fractions with different denominators
- **BB.4** Subtract fractions with different denominators using models
- BB.5 Subtract fractions with different

- **B.11** Addition up to six digits: fill in the missing digits
- **B.12** Add three or more numbers with up to six digits
- **B.13** Choose numbers with a particular sum
- **B.14** Estimate sums: up to four digits
- **B.15** Estimate sums: up to six digits
- **B.16** Estimate sums: word problems up to six digits

Subtraction

- C.1 Subtract three-digit numbers
- **C.2** Subtract three-digit numbers: word problems
- **C.3** Complete the subtraction sentence: three-digit numbers
- **C.4** Balance subtraction equations: three-digit numbers
- C.5 Subtract numbers up to six digits
- **C.6** Subtract numbers up to six digits: word problems
- **C.7** Subtraction up to six digits: fill in the missing digits
- **C.8** Subtraction patterns over increasing place values
- **C.9** Choose numbers with a particular difference
- **C.10** Estimate differences: up to four digits
- **C.11** Estimate differences: up to six digits
- **C.12** Estimate differences: word problems up to six digits

Multiplication fluency

- **D.1** Multiplication tables for 2, 3, 4, 5, 6, 8 and 10
- **D.2** Multiplication facts for 2, 3, 4, 5, 6, 8 and 10: find the missing factor
- **D.3** Choose the multiples of 2, 3, 4, 5, 6, 8 and 10
- **D.4** Multiplication facts to 10
- **D.5** Multiplication facts up to 10: find the missing factor
- **D.6** Choose the multiples of a given number up to 10
- **D.7** Multiplication facts to 12
- **D.8** Multiplication facts up to 12: find the missing factor
- **D.9** Choose the multiples of a given number up to 12

Multiply by one-digit numbers

- **E.1** Compare numbers using multiplication
- **E.2** Compare numbers using multiplication: word problems
- **E.3** Multiply by multiples of 10, 100 and 1,000
- **E.4** Multiplication patterns over increasing place values
- **E.5** Properties of multiplication
- **E.6** Estimate products: multiply by 1-digit numbers
- **E.7** Estimate products word problems: identify reasonable answers
- E.8 Multiply 1-digit numbers by 2-

- **0.10** Interpret line plots
- O.11 Create line plots
- **0.12** Interpret frequency charts
- 0.13 Create frequency charts
- **0.14** Interpret stem-and-leaf plots
- **0.15** Create stem-and-leaf plots
- 0.16 Pie charts
- **O.17** Choose the best type of graph

Logical reasoning

- **P.1** Find two numbers based on sum and difference
- **P.2** Find two numbers based on sum, difference, product and quotient
- P.3 Find the order

Patterns and sequences

- **Q.1** Use a rule to complete a number pattern
- **Q.2** What is true about the addition pattern?
- **Q.3** What is true about the multiplication pattern?
- **Q.4** Identify mistakes in number patterns
- **Q.5** Complete an increasing number pattern
- **Q.6** Complete a geometric number pattern
- Q.7 Number patterns: word problems
- Q.8 Number patterns: mixed review
- Q.9 Shape patterns

Money

- R.1 Compare money amounts
- R.2 Round money amounts
- **R.3** Add and subtract money amounts
- **R.4** Add and subtract money amounts word problems
- R.5 Making change
- R.6 Price lists

Units of measurement

- S.1 Read a thermometer
- **S.2** Compare temperatures above and below zero
- **S.3** Calculate temperature differences
- **S.4** Choose the appropriate metric unit of measure
- **S.5** Compare and convert metric units of length
- **S.6** Compare and convert metric units of mass
- **S.7** Compare and convert metric units of volume
- S.8 Metric mixed units
- **S.9** Add and subtract metric mixed units
- **S.10** Choose the appropriate imperial unit of measure
- **S.11** Compare and convert imperial units of length
- **S.12** Compare and convert imperial units of weight
- **S.13** Compare and convert imperial units of volume

- denominators
- **BB.6** Add and subtract fractions with different denominators
- **BB.7** Add and subtract fractions with different denominators: word problems
- **BB.8** Add three or more fractions with different denominators
- **BB.9** Add three or more fractions with different denominators: word problems
- **BB.10** Add and subtract mixed numbers with different denominators
- **BB.11** Add and subtract mixed numbers with different denominators: word problems

Multiply fractions

- **CC.1** Multiply unit fractions by whole numbers using number lines
- **CC.2** Multiply unit fractions by whole numbers using models
- **CC.3** Multiples of unit fractions: find the missing numbers
- **CC.4** Multiply unit fractions and whole numbers: sorting
- **CC.5** Multiply unit fractions by whole numbers
- **CC.6** Multiply unit fractions by whole numbers: word problems
- **CC.7** Multiply fractions by whole numbers using number lines
- **CC.8** Multiply fractions by whole numbers using models
- **CC.9** Multiply fractions by whole numbers using models: complete the equation
- **CC.10** Multiples of fractions: find the missing numbers
- **CC.11** Multiply fractions and whole numbers: sorting
- **CC.12** Multiply fractions by whole numbers
- **CC.13** Multiply fractions by whole numbers: word problems
- CC.14 Fractions of a number
- **CC.15** Fractions of a number: word problems

Decimals up to hundredths

- **DD.1** What decimal number is illustrated?
- DD.2 Model decimals and fractions
- **DD.3** Understanding decimals expressed in words: up to hundredths
- **DD.4** Place values in decimal numbers up to hundredths
- **DD.5** One-tenth or one-hundredth more or less
- **DD.6** Equivalent decimals up to hundredths
- **DD.7** Graph decimals on number lines
- **DD.8** Decimal number lines
- **DD.9** Graph fractions as decimals on number lines
- **DD.10** Convert fractions to decimals: up to hundredths
- **DD.11** Convert decimals to fractions: up to hundredths
- **DD.12** Convert decimals between standard and expanded form

- digit or 3-digit numbers using area models I
- **E.9** Multiply 1-digit numbers by 2-digit or 3-digit numbers using area models II
- **E.10** Multiply 1-digit numbers by 2-digit or 3-digit numbers
- **E.11** Multiply 1-digit numbers by 2-digit or 3-digit numbers: word problems
- **E.12** Multiply 1-digit numbers by 4-digit numbers using area models
- **E.13** Multiply 1-digit numbers by 3-digit or 4-digit numbers using expanded form
- **E.14** Multiply 1-digit numbers by multi-digit numbers using partial products
- **E.15** Multiply 1-digit numbers by 4-digit numbers
- **E.16** Multiply 1-digit numbers by 4-digit numbers: word problems
- **E.17** Multiply 1-digit numbers by larger numbers

Multiply by two-digit numbers

- **F.1** Multiply 2-digit numbers by 10 or 100
- **F.2** Estimate products: multiply by 2-digit numbers
- **F.3** Estimate products: word problems
- **F.4** Use one multiplication fact to complete another
- **F.5** Multiply 2-digit numbers by 2-digit numbers using area models T
- **F.6** Multiply 2-digit numbers by 2-digit numbers using area models
- **F.7** Multiply 2-digit numbers by 2-digit numbers using partial products
- **F.8** Multiply 2-digit numbers by 2-digit numbers: complete the missing steps
- **F.9** Multiply 2-digit numbers by 2-digit numbers
- **F.10** Multiply 2-digit numbers by 2-digit numbers: word problems
- **F.11** Box multiplication
- F.12 Lattice multiplication
- **F.13** Multiply 2-digit numbers by 3-digit or 4-digit numbers: complete the missing steps
- **F.14** Multiply 2-digit numbers by 3-digit or 4-digit numbers
- **F.15** Multiply 2-digit numbers by 3-digit or 4-digit numbers: word problems
- **F.16** Choose numbers with a particular product
- **F.17** Multiply numbers ending in zeroes
- **F.18** Multiply numbers ending in zeroes: word problems
- **F.19** Multiply three numbers up to 2 digits each
- **F.20** Multiply three or more numbers: word problems

Division fluency

 $\textbf{F.21} \ \ \textbf{Inequalities with multiplication}$

- **S.14** Imperial mixed units
- **S.15** Convert between metric and imperial units

Time

- T.1 Match analogue and digital clocks
- T.2 Read clocks and write times
- T.3 Convert time units
- **T.4** Add and subtract mixed time units
- **T.5** Fractions of time units
- **T.6** Elapsed time: find the end time
- T.7 Find the elapsed time
- **T.8** Elapsed time word problems: find the end time
- **T.9** Elapsed time word problems: find the elapsed time
- **T.10** Find start and end times: multistep word problems
- **T.11** Convert between 12-hour and 24-hour time
- T.12 Time zones 12-hour time
- T.13 Time zones 24-hour time
- **T.14** Transportation schedules 12-hour time
- **T.15** Transportation schedules 24-hour time
- T.16 Time patterns

Two-dimensional figures

- **U.1** Which two-dimensional figure is being described?
- U.2 Is it a polygon?
- **U.3** Regular and irregular polygons
- **U.4** Number of sides in polygons
- **U.5** Graph triangles and quadrilaterals
- **U.6** Lines, line segments and rays
- **U.7** Parallel, perpendicular and intersecting lines
- **U.8** Types of triangles
- **U.9** Identify congruent figures

Angles

- V.1 Acute, right, obtuse and straight angles
- V.2 Angles as fractions of a circle
- **V.3** Use fractions to find the measure of an angle
- **V.4** Angles of 90, 180, 270 and 360 degrees
- V.5 Measure angles on a circle
- **V.6** Measure angles with a protractor
- V.7 Draw angles with a protractor
- **V.8** Estimate angle measurements

Symmetry and transformations

- W.1 Identify lines of symmetry
- W.2 Draw lines of symmetry
- W.3 Count lines of symmetry
- W.4 Rotational symmetry
- **W.5** Identify reflections, rotations and translations
- W.6 Translations
- W.7 Reflections

- using fractions: up to hundredths
- **DD.13** Round decimals to the nearest whole number or tenth
- **DD.14** Compare decimals using models
- **DD.15** Compare decimals on number lines
- **DD.16** Compare decimal numbers up to hundredths
- **DD.17** Put decimal numbers in order I: up to hundredths
- **DD.18** Put decimal numbers in order II: up to hundredths
- **DD.19** Compare positive and negative decimals: up to tenths
- **DD.20** Put positive and negative decimals in order: up to tenths
- **DD.21** Compare decimals and fractions on number lines
- **DD.22** Compare decimals and fractions: up to hundredths
- **DD.23** Number sequences involving decimals

Decimals up to thousandths

- **EE.1** Understanding decimals expressed in words: up to thousandths
- **EE.2** Place values in decimal numbers up to thousandths
- **EE.3** Relationship between decimal place values
- **EE.4** Equivalent decimals up to thousandths
- **EE.5** Convert fractions and mixed numbers to decimals: up to thousandths
- **EE.6** Convert decimals to fractions and mixed numbers: up to thousandths
- **EE.7** Convert decimals between standard and expanded form using fractions: up to thousandths
- **EE.8** Compare decimal numbers up to thousandths
- **EE.9** Put decimal numbers in order I: up to thousandths
- EE.10 Put decimal numbers in order II: up to thousandths

 EE.11 Compare, order and round
- decimals: word problems **EE.12** Compare decimals and

Add and subtract decimals

fractions: up to thousandths

- **FF.1** Add decimal numbers: up to tenths
- **FF.2** Subtract decimal numbers: up to tenths
- **FF.3** Add decimal numbers using blocks
- **FF.4** Add decimal numbers: up to hundredths
- **FF.5** Subtract decimal numbers: up to hundredths
- **FF.6** Add and subtract decimal numbers: up to hundredths
- **FF.7** Add and subtract decimals up to hundredths: word problems
- FF.8 Add decimal numbers: up to

- **G.1** Division facts for 2, 3, 4, 5, 6, 8 and 10
- G.2 Division facts to 10
- **G.3** Division facts to 10: word problems
- G.4 Division facts to 12
- **G.5** Division facts to 12: word problems

Division

- H.1 Properties of division
- **H.2** Divide 2-digit numbers by 1-digit numbers using arrays
- **H.3** Divide 2-digit numbers by 1-digit numbers using area models
- **H.4** Divide using repeated subtraction
- **H.5** Divide using the distributive property
- **H.6** Divide 2-digit numbers by 1-digit numbers: quotients up to 10
- **H.7** Divide 2-digit numbers by 1-digit numbers
- **H.8** Divide 2-digit numbers by 1-digit numbers: word problems
- **H.9** Divide 2-digit numbers by 1-digit numbers: complete the table
- **H.10** Divide 2-digit numbers by 1-digit numbers: interpret remainders
- **H.11** Divide 3-digit numbers by 1-digit numbers using area models
- H.12 Divide using partial quotients
- **H.13** Divide 3-digit numbers by 1-digit numbers
- **H.14** Divide 3-digit numbers by 1-digit numbers: word problems
- **H.15** Divide 4-digit numbers by 1-digit numbers
- **H.16** Divide 4-digit numbers by 1-digit numbers: word problems
- H.17 Divide larger numbers by 1digit numbers: complete the table
- **H.18** Divide larger numbers by 1-digit numbers: interpret remainders
- **H.19** Choose numbers with a particular quotient
- **H.20** Division patterns over increasing place values
- **H.21** Divide numbers ending in zeroes by 1-digit numbers
- **H.22** Estimate quotients using compatible numbers: 1-digit divisors
- $\textbf{H.23} \ \ \text{Estimate quotients to compare}$
- **H.24** Estimate quotients: word problems
- **H.25** Divide numbers ending in zeroes
- **H.26** Divide numbers ending in zeroes: word problems
- $\textbf{H.27} \ \ \textbf{Inequalities with division}$

Mixed operations

- **I.1** Write numerical expressions
- I.2 Mentally add and subtract numbers ending in zeroes
- I.3 Add, subtract, multiply and divide
- I.4 Input/output tables: add and

- W.8 Rotations
- **W.9** Combinations of reflections, rotations and translations

Three-dimensional figures

- **X.1** Identify three-dimensional figures
- X.2 Count vertices, edges and faces
- **X.3** Identify faces of three-dimensional figures
- **X.4** Which three-dimensional figure is being described?
- X.5 Nets of three-dimensional figures

Geometric measurement

- **Y.1** Find the perimeter of rectangles using formulas
- **Y.2** Perimeter of rectilinear shapes
- Y.3 Perimeter of polygons
- **Y.4** Perimeter with decimal side lengths
- **Y.5** Perimeter: find the missing side lengths
- Y.6 Perimeter: word problems
- Y.7 Find the area of figures made of unit squares
- Y.8 Select figures with a given area
- **Y.9** Select two figures with the same area
- **Y.10** Multiply to find the area of a rectangle made of unit squares
- Y.11 Create figures with a given area
- Y.12 Create rectangles with a given area
- **Y.13** Find the area of rectangles and squares
- **Y.14** Compare areas of rectangles and squares
- **Y.15** Find the missing side length of a rectangle
- Y.16 Area word problems
- Y.17 Find the area of complex figures
- **Y.18** Find the area between two rectangles
- **Y.19** Area and perimeter: word problems
- **Y.20** Use area and perimeter to determine cost
- Y.21 Volume of cuboids made of unit cubes
- **Y.22** Volume of irregular figures made of unit cubes

Fractions and mixed numbers

- Z.1 Fractions review
- **Z.2** Fractions of a whole: word problems
- **Z.3** Fractions of a group: word problems
- **Z.4** Identify mixed numbers
- **Z.5** Find equivalent fractions using area models
- **Z.6** Graph equivalent fractions on number lines
- **Z.7** Identify equivalent fractions
- **Z.8** Equivalent fractions: find the missing numerator or denominator

- thousandths
- **FF.9** Subtract decimal numbers: up
- **FF.10** Add and subtract decimal numbers: up to thousandths
- **FF.11** Add and subtract decimals up to thousandths: word problems
- **FF.12** Choose decimals with a particular sum or difference
- FF.13 Add three or more decimals
- **FF.14** Add three or more decimals: word problems
- **FF.15** Complete the addition or subtraction sentence with decimals
- **FF.16** Inequalities with addition and subtraction of decimals
- **FF.17** Estimate sums and differences of decimals
- **FF.18** Solve decimal problems using diagrams

Multiply and divide decimals

- GG.1 Multiply a decimal by 10 or 100
- **GG.2** Divide a whole number by 10 or 100: decimal quotients
- **GG.3** Divide a decimal by 10 or 100
- **GG.4** Multiply a decimal by 10, 100 or 1,000
- **GG.5** Divide a whole number by 10, 100 or 1,000: decimal quotients
- **GG.6** Divide a decimal by 10, 100 or 1,000

Percents and ratios

- HH.1 What percentage is illustrated?
- **HH.2** Understanding percents: bar models
- **HH.3** Convert fractions to percents using grid models
- **HH.4** Convert percents to fractions and decimals
- **HH.5** Convert between percents, fractions and decimals
- **HH.6** Convert between percents, fractions and decimals: word problems
- **HH.7** Compare percents to each other and to fractions
- **HH.8** Compare percents and fractions: word problems
- HH.9 Percent of a number
- **HH.10** Percent of a number: word problems
- **HH.11** Compare percents of numbers
- HH.12 Write a ratio
- **HH.13** Which model represents the ratio?
- HH.14 Unit rates

Probability and statistics

- II.1 Understanding probability
- II.2 Find the probability
- II.3 Make predictions
- II.4 Find the mode
- **II.5** Find the mean
- **II.6** Find the median
- **II.7** Find the range

- suptract powers or ten
- **I.5** Use a rule to complete an input/output table
- I.6 Input/output tables: find the rule
- I.7 Input/output tables: find the rule and complete the table
- I.8 Comparison word problems with addition and subtraction
- I.9 Addition, subtraction, multiplication and division word problems
- I.10 Estimate sums, differences, products and quotients: word problems
- I.11 Choose numbers with a particular sum, difference, product or quotient
- I.12 Inequalities involving addition, subtraction, multiplication and division
- I.13 Word problems with extra or missing information
- I.14 Solve word problems using guess-and-check
- I.15 Multi-step addition and subtraction word problems
- I.16 Multi-step word problems
- I.17 Multi-step word problems involving remainders
- I.18 Multi-step word problems: identify reasonable answers

Indices

- **J.1** Understand square and cube numbers
- J.2 Evaluate indices: squares and cubes

Number theory

- K.1 Divisibility rules
- K.2 Divisibility rules: word problems
- **K.3** Identify factors
- K.4 Find all the factor pairs of a number
- K.5 Prime and composite numbers: up to 10
- K.6 Prime and composite numbers: up to 20
- **K.7** Prime and composite numbers: up to 100
- K.8 Prime factorisation
- K.9 Highest common factor
- K.10 Square numbers

- **Z.9** Graph fractions equivalent to 1 on number lines
- **Z.10** Select fractions equivalent to whole numbers using models
- **Z.11** Fractions with denominators of 10 and 100
- **Z.12** Fractions and mixed numbers with denominators of 10 and
- **Z.13** Patterns of equivalent fractions
- **Z.14** Write fractions in lowest terms
- **Z.15** Compare fractions with the same numerator or denominator using models
- **Z.16** Graph and compare fractions with the same numerator or denominator on number lines
- **Z.17** Compare fractions with the same numerator or denominator
- **Z.18** Compare fractions with different denominators using models
- **Z.19** Compare fractions with different denominators
- **Z.20** Graph and order fractions with the same numerator or denominator on number lines
- Z.21 Order fractions with the same numerator or denominator
- **Z.22** Order fractions with different denominators
- **Z.23** Find smaller or larger fractions
- **Z.24** Convert between improper fractions and mixed numbers
- Z.25 Relate division and fractions
- 7.26 Understand fractions as division: word problems

- II.8 Interpret charts to find mode
- II.9 Interpret charts to find mean
- II.10 Interpret charts to find median
- II.11 Interpret charts to find range

Financial literacy

- JJ.1 Calculate profit: word problems
- **JJ.2** Compare savings options
- JJ.3 Budget a weekly allowance: word problems

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