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Year 3 maths

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R

1

Counting and number patterns

- A.1** Skip-counting by 2, 5 and 10
- A.2** Skip-counting by 4
- A.3** Skip-counting by 8
- A.4** Skip-counting by 100
- A.5** Skip-counting stories
- A.6** Skip-counting sequences
- A.7** Skip-counting puzzles
- A.8** Number lines - up to 100
- A.9** Counting patterns - up to 100
- A.10** Hundred chart
- A.11** Number lines - up to 1,000
- A.12** Count forward - up to 1,000
- A.13** Counting patterns - up to 1,000
- A.14** Even or odd
- A.15** Identify numbers as even or odd
- A.16** Select even or odd numbers
- A.17** Even or odd numbers on number lines
- A.18** Which even or odd number comes before or after?
- A.19** Understand negative numbers

2

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Comparing and ordering

- B.1** Comparing numbers up to 100
- B.2** Comparing numbers up to 1,000
- B.3** Put numbers up to 100 in order
- B.4** Put numbers up to 1,000 in order
- B.5** Greatest and least - word problems - up to 100
- B.6** Greatest and least - word problems - up to 1,000

11

12

13

Names of numbers

- C.1** Ordinal numbers up to 10th
- C.2** Ordinal numbers up to 100th
- C.3** Convert between digits and words - up to 100
- C.4** Convert digits to words - up to 1,000
- C.5** Convert words to digits - up to 1,000
- C.6** Write digits given words - up to 1,000
- C.7** Write words given digits - up to 1,000
- C.8** Convert between digits and words - up to 1,000

Subtraction - three digits

- J.1** Subtract multiples of 100
- J.2** Subtract a one-digit number from a three-digit number
- J.3** Subtract by a multiple of 10
- J.4** Subtract a two-digit number from a three-digit number
- J.5** Subtract by a multiple of 100
- J.6** Subtract a three-digit number from a three-digit number
- J.7** Subtract three-digit numbers
- J.8** Subtraction input/output tables - up to three digits
- J.9** Subtract a one-digit number from a three-digit number: word problems
- J.10** Subtract a two-digit number from a three-digit number: word problems
- J.11** Subtract a three-digit number from a three-digit number: word problems
- J.12** Subtraction word problems - up to three digits
- J.13** Complete the subtraction sentence - up to three digits
- J.14** Write the subtraction sentence - up to three digits
- J.15** Balance subtraction equations - up to three digits

Understand multiplication

- K.1** Count equal groups
- K.2** Identify multiplication expressions for equal groups
- K.3** Write multiplication sentences for equal groups
- K.4** Relate addition and multiplication for equal groups
- K.5** Identify multiplication expressions for arrays
- K.6** Write multiplication sentences for arrays
- K.7** Make arrays to model multiplication
- K.8** Write multiplication sentences for number lines

Multiplication skill builders

- L.1** Multiply by 0
- L.2** Multiply by 1
- L.3** Multiply by 2
- L.4** Multiply by 3
- L.5** Multiply by 4

Money

- V.1** Coin values
- V.2** Count coins
- V.3** Count coins and notes
- V.4** Equivalent amounts of money - up to £1
- V.5** Equivalent amounts of money - up to £5
- V.6** Exchanging coins
- V.7** Comparing groups of coins
- V.8** Add and subtract money - up to £1
- V.9** Add and subtract money - word problems - up to £1
- V.10** Add and subtract money - word problems - up to £5
- V.11** Purchases - do you have enough money - up to £1
- V.12** Purchases - do you have enough money - up to £10
- V.13** Which picture shows more - up to £1
- V.14** Which picture shows more - up to £5
- V.15** Least number of coins
- V.16** How much more to make one pound?
- V.17** Making change - purchases up to £1
- V.18** Making change - purchases up to £10

Time

- W.1** Match clocks and times I
- W.2** Match clocks and times II
- W.3** Match analogue and digital clocks I
- W.4** Match analogue and digital clocks II
- W.5** Read clocks and write times I
- W.6** Read clocks and write times II
- W.7** Time words: o'clock, half, quarter
- W.8** A.M. or P.M.
- W.9** Compare clocks
- W.10** Elapsed time I
- W.11** Elapsed time II
- W.12** Time patterns
- W.13** Relate time units
- W.14** Seasons
- W.15** Days of the week
- W.16** Months of the year

C.9 Roman numerals I, V, X

Patterns

- D.1** Repeating patterns
- D.2** Growing patterns
- D.3** Find the next shape in a pattern
- D.4** Complete a repeating pattern
- D.5** Make a repeating pattern
- D.6** Find the next row in a growing pattern

Addition - one digit

- E.1** Add one-digit numbers - sums to 10
- E.2** Ways to make a number - sums to 10
- E.3** Write addition sentences - sums to 10
- E.4** Add doubles
- E.5** Add zero
- E.6** Addition with pictures - sums to 20
- E.7** Write addition sentences to describe pictures - sums to 20
- E.8** Add one-digit numbers
- E.9** Addition input/output tables - sums to 20
- E.10** Addition word problems - sums to 20
- E.11** Complete the addition sentence - sums to 20
- E.12** Write the addition sentence - sums to 20
- E.13** Balance addition equations - sums to 20
- E.14** Add three or more one-digit numbers
- E.15** Add three or more one-digit numbers - word problems
- E.16** Identify repeated addition in arrays: sums to 10
- E.17** Write addition sentences for arrays: sums to 10
- E.18** Identify repeated addition in arrays: sums to 25
- E.19** Write addition sentences for arrays: sums to 25

Subtraction - one digit

- F.1** Subtract one-digit numbers - up to 10
- F.2** Ways to subtract - up to 10
- F.3** Write subtraction sentences - up to 10
- F.4** Subtract doubles
- F.5** Subtract zero/all
- F.6** Subtraction with pictures - up to 20
- F.7** Write subtraction sentences to describe pictures - up to 20
- F.8** Subtract a one-digit number from a two-digit number up to 20
- F.9** Subtraction input/output tables - up to 20
- F.10** Subtraction word problems - up to 20
- F.11** Complete the subtraction sentence - up to 20
- F.12** Write the subtraction sentence - up to 20

- L.6** Multiply by 5
- L.7** Multiply by 6
- L.8** Multiply by 7
- L.9** Multiply by 8
- L.10** Multiply by 9
- L.11** Multiply by 10

Multiplication

- M.1** Multiplication tables up to 5
- M.2** Multiplication tables for 2, 3, 4, 5, 8 and 10
- M.3** Multiplication tables for 6, 7, 8 and 9
- M.4** Multiplication tables up to 10
- M.5** Multiplication facts up to 5: true or false?
- M.6** Multiplication facts for 2, 3, 4, 5, 8, 10: true or false?
- M.7** Multiplication facts up to 10: true or false?
- M.8** Choose the multiples of 2, 3, 4, 5 or 10
- M.9** Multiplication facts up to 10: find the missing factor
- M.10** Multiplication word problems
- M.11** Multiplication word problems: find the missing factor
- M.12** Multiply a one-digit number by a two-digit number using area models I
- M.13** Multiply a one-digit number by a two-digit number using area models II
- M.14** Multiply a one-digit number by a two-digit number
- M.15** Multiply a one-digit number by a two-digit number: word problems
- M.16** Multiplication input/output tables
- M.17** Combinations
- M.18** Multiply a 1-digit number by 10 or 100
- M.19** Multiply using properties

Understand division

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

Division skill builders

- O.1** Divide by 1
- O.2** Divide by 2
- O.3** Divide by 3
- O.4** Divide by 4
- O.5** Divide by 5
- O.6** Divide by 6
- O.7** Divide by 7
- O.8** Divide by 8
- O.9** Divide by 9
- O.10** Divide by 10

- W.17** Number of days in each month
- W.18** Read a calendar
- W.19** Reading schedules

Data and graphs

- X.1** Which tally chart is correct?
- X.2** Interpret tally charts
- X.3** Interpret bar graphs
- X.4** Which bar graph is correct?
- X.5** Create bar graphs
- X.6** Use bar graphs to solve problems
- X.7** Interpret line plots
- X.8** Create line plots
- X.9** Interpret pictograms I
- X.10** Interpret pictograms II
- X.11** Create pictograms
- X.12** Interpret data in tables I
- X.13** Interpret data in tables II
- X.14** Interpret line graphs
- X.15** Which line graph is correct?
- X.16** Count shapes in a Venn diagram
- X.17** Sort shapes into a Venn diagram

Units of measurement

- Y.1** Compare size, weight and capacity
- Y.2** Read a thermometer
- Y.3** Measure using a centimetre ruler
- Y.4** Which metric unit of length is appropriate?
- Y.5** Compare and convert metric units of length
- Y.6** Metric units of length: word problems
- Y.7** Which metric unit of mass is appropriate?
- Y.8** Compare and convert metric units of mass
- Y.9** Which metric unit of volume is appropriate?
- Y.10** Compare and convert metric units of volume
- Y.11** Metric units of mass and volume: word problems
- Y.12** Choose the appropriate measuring tool

Two-dimensional shapes

- Z.1** Name the two-dimensional shape
- Z.2** Select two-dimensional shapes
- Z.3** Count sides and vertices
- Z.4** Compare sides and vertices
- Z.5** Flip, turn and slide
- Z.6** Fractions of a turn
- Z.7** Angles: greater than, less than or equal to a right angle
- Z.8** Angles: acute, right or obtuse
- Z.9** Right angles in quadrilaterals
- Z.10** Parallel and perpendicular lines
- Z.11** Identify congruent shapes
- Z.12** Identify lines of symmetry
- Z.13** Draw lines of symmetry
- Z.14** Count lines of symmetry

- F.13** Balance subtraction equations - up to 20

Addition - two digits

- G.1** Add multiples of 10
- G.2** Write addition sentences to describe pictures
- G.3** Use models to add a two-digit and a one-digit number - without regrouping
- G.4** Add a two-digit and a one-digit number - without regrouping
- G.5** Use models to add a two-digit and a one-digit number - with regrouping
- G.6** Add a two-digit and a one-digit number - with regrouping
- G.7** Use models to add two two-digit numbers - without regrouping
- G.8** Add two two-digit numbers - without regrouping
- G.9** Use models to add two two-digit numbers - with regrouping
- G.10** Add two two-digit numbers - with regrouping
- G.11** Use compensation to add - up to two digits
- G.12** Addition input/output tables - up to two digits
- G.13** Ways to make a number using addition
- G.14** Addition word problems - up to two digits
- G.15** Complete the addition sentence - up to two digits
- G.16** Write the addition sentence - up to two digits
- G.17** Balance addition equations - up to two digits
- G.18** Add three or more numbers up to two digits each
- G.19** Add three or more numbers up to two digits - word problems

Subtraction - two digits

- H.1** Subtract multiples of 10
- H.2** Write subtraction sentences to describe pictures - up to two digits
- H.3** Subtract a one-digit number from a two-digit number - without regrouping
- H.4** Subtract a one-digit number from a two-digit number - with regrouping
- H.5** Subtract two two-digit numbers - without regrouping
- H.6** Subtract two two-digit numbers - with regrouping
- H.7** Subtraction input/output tables - up to two digits
- H.8** Ways to make a number using subtraction
- H.9** Subtraction word problems - up to two digits
- H.10** Complete the subtraction sentence - up to two digits
- H.11** Write the subtraction sentence - up to two digits
- H.12** Balance subtraction equations - up to two digits

Addition - three digits

Division

- P.1** Divisors and quotients up to 5
- P.2** Division facts for 2, 3, 4, 5, 8 and 10
- P.3** Division facts for 6, 7, 8 and 9
- P.4** Divisors and quotients up to 10
- P.5** Division facts up to 5: true or false?
- P.6** Division facts for 2, 3, 4, 5, 8, 10: true or false?
- P.7** Division facts up to 10: true or false?
- P.8** Division facts up to 10: find the missing number
- P.9** Division word problems
- P.10** Divide a two-digit number by a one-digit number using area models
- P.11** Divide using repeated subtraction
- P.12** Divide a two-digit number by a one-digit number
- P.13** Divide a two-digit number by a one-digit number: word problems
- P.14** Complete the division table
- P.15** Division input/output tables

Properties

- Q.1** Related addition facts
- Q.2** Related subtraction facts
- Q.3** Relate addition and subtraction
- Q.4** Fact families
- Q.5** Relate addition and multiplication
- Q.6** Relate multiplication and division
- Q.7** Addition, subtraction, multiplication and division terms
- Q.8** Solve inequalities using addition and subtraction shortcuts

Place values

- R.1** Place value models - tens and ones
- R.2** Place value models - up to hundreds
- R.3** Identify a digit up to the hundreds place
- R.4** Place value - tens and ones
- R.5** Place value - up to hundreds
- R.6** Convert to/from a number - tens and ones
- R.7** Regroup tens and ones - ways to make a number
- R.8** Regroup tens and ones
- R.9** Convert to/from a number - up to hundreds
- R.10** Convert between place values - up to hundreds
- R.11** Convert from expanded form - up to hundreds
- R.12** Place value word problems

Estimation and rounding

- S.1** Estimate to the nearest ten
- S.2** Round to the nearest ten
- S.3** Round to the nearest ten or hundred
- S.4** Estimate sums

Three-dimensional shapes

- AA.1** Name the three-dimensional shape
- AA.2** Select three-dimensional shapes
- AA.3** Count vertices, edges and faces
- AA.4** Compare vertices, edges and faces
- AA.5** Identify faces of three-dimensional shapes
- AA.6** Identify shapes traced from solids
- AA.7** Shapes of everyday objects I
- AA.8** Shapes of everyday objects II

Perimeter and area

- BB.1** Perimeter
- BB.2** Perimeter - word problems
- BB.3** Area
- BB.4** Area of figures on grids
- BB.5** Select figures with a given area
- BB.6** Select two figures with the same area
- BB.7** Create figures with a given area

Understand fractions

- CC.1** Halves and quarters
- CC.2** Identify the fraction
- CC.3** Understand fractions: fraction bars
- CC.4** Understand fractions: area models
- CC.5** Match fractions to models
- CC.6** Show fractions: fraction bars
- CC.7** Show fractions: area models
- CC.8** Fractions of number lines: unit fractions
- CC.9** Fractions of number lines
- CC.10** Identify unit fractions on number lines
- CC.11** Identify fractions on number lines
- CC.12** Graph unit fractions on number lines
- CC.13** Graph fractions on number lines
- CC.14** Graph smaller or larger fractions on a number line
- CC.15** Fractions of a number
- CC.16** Fractions of a group
- CC.17** Fractions of a group: word problems
- CC.18** Fractions of a whole: modelling word problems
- CC.19** Fractions of a whole: word problems
- CC.20** Model decimals and fractions: tenths
- CC.21** Graph decimals and fractions on a number line: tenths

Equivalent fractions

- DD.1** Find equivalent fractions using area models: two models
- DD.2** Find equivalent fractions using area models: one model
- DD.3** Identify equivalent fractions on

- I.1** Add multiples of 100
- I.2** Add a multiple of 10 or 100
- I.3** Use models to add three-digit numbers - without regrouping
- I.4** Use models to add three-digit numbers - with regrouping
- I.5** Add a one-digit number to a three-digit number
- I.6** Add a two-digit number to a three-digit number
- I.7** Add a three-digit number to a three-digit number
- I.8** Addition with three-digit numbers
- I.9** Use compensation to add - up to three digits
- I.10** Addition input/output tables - up to three digits
- I.11** Add a one-digit number to a three-digit number: word problems
- I.12** Add a two-digit number to a three-digit number: word problems
- I.13** Add a three-digit number to a three-digit number: word problems
- I.14** Addition word problems - up to three digits
- I.15** Complete the addition sentence - up to three digits
- I.16** Write the addition sentence - up to three digits
- I.17** Balance addition equations - up to three digits

- S.5** Estimate sums: word problems
- S.6** Estimate differences
- S.7** Estimate differences: word problems

Mixed operations

- T.1** Ten more or less
- T.2** Add and subtract 10 - input/output tables
- T.3** Add and subtract numbers up to 20
- T.4** Addition and subtraction - ways to make a number - up to 20
- T.5** Addition and subtraction word problems - up to 20
- T.6** Addition and subtraction - balance equations - up to 20
- T.7** Input/output tables - write the rule - up to 20
- T.8** Add and subtract numbers up to 100
- T.9** Addition and subtraction - ways to make a number - up to 100
- T.10** Addition and subtraction word problems - up to 100
- T.11** Two-step addition and subtraction word problems - up to 100
- T.12** Addition and subtraction - balance equations - up to 100
- T.13** Input/output tables - write the rule - up to 100
- T.14** Add and subtract 100 - input/output tables
- T.15** Which sign (+ or -) makes the number sentence true?
- T.16** Write addition and subtraction sentences
- T.17** Inequalities with addition and subtraction - up to 100
- T.18** Add and subtract numbers up to 1,000
- T.19** Multiplication and division facts with 2, 3, 4, 5, 8 and 10
- T.20** Multiplication and division facts with 2, 3, 4, 5, 8 and 10: true or false?
- T.21** Multiplication and division facts up to 10
- T.22** Multiplication and division facts up to 10: true or false?
- T.23** Addition, subtraction, multiplication and division facts I
- T.24** Addition, subtraction, multiplication and division facts II

Logical reasoning

- U.1** Guess the number

number lines

- DD.4** Find equivalent fractions using number lines
- DD.5** Graph equivalent fractions on number lines
- DD.6** Select equivalent fractions
- DD.7** Find equivalent fractions

Compare fractions

- EE.1** Compare fractions using models
- EE.2** Compare fractions using number lines
- EE.3** Graph and compare fractions with the same denominator on number lines
- EE.4** Graph and compare fractions with the same numerator on number lines
- EE.5** Compare fractions
- EE.6** Graph and order fractions on number lines
- EE.7** Order fractions with the same denominator
- EE.8** Order fractions with the same numerator

Add and subtract fractions

- FF.1** Decompose fractions into unit fractions
- FF.2** Decompose fractions
- FF.3** Add fractions with the same denominator using area models
- FF.4** Add fractions with the same denominator using bar models
- FF.5** Add fractions with the same denominator using number lines
- FF.6** Add fractions with the same denominator
- FF.7** Subtract fractions with the same denominator using area models
- FF.8** Subtract fractions with the same denominator using bar models
- FF.9** Subtract fractions with the same denominator using number lines
- FF.10** Subtract fractions with the same denominator
- FF.11** Add and subtract fractions with the same denominator
- FF.12** Add and subtract fractions with the same denominator: word problems

Probability

- GG.1** More, less and equally likely
- GG.2** Certain, probable, unlikely and impossible

Financial literacy

- HH.1** Reading financial records
- HH.2** Keeping financial records

