

Search topics and skills

Username

Password

Sign in

 Remember

Learning Diagnostic Analytics

MEMBERSHIP

Recommendations

Maths

English

National curriculum

Awards

View by: Years Topics

Year 4 maths

IXL offers hundreds of year 4 maths skills to explore and learn! Not sure where to start? Go to your personalised [Recommendations wall](#) and choose a skill that looks interesting!

R

1

Numbers and comparing

- A.1** Even or odd
- A.2** Even or odd: arithmetic rules
- A.3** Skip-counting by 6
- A.4** Skip-counting by 7
- A.5** Skip-counting by 9
- A.6** Skip-counting puzzles
- A.7** Number sequences
- A.8** Ordinal numbers to 100th
- A.9** Writing numbers up to 10,000 in words: convert words to digits
- A.10** Writing numbers up to 10,000 in words: convert digits to words
- A.11** Roman numerals
- A.12** Compare numbers up to 1,000
- A.13** Compare numbers up to 100,000
- A.14** Compare numbers in tables: up to 100,000
- A.15** Put numbers in order: up to 1,000
- A.16** Put numbers in order: up to 100,000
- A.17** Comparing - with addition and subtraction
- A.18** Multi-step inequalities

2

3

4

5

6

7

8

9

10

Place values

- B.1** Place value models up to thousands
- B.2** Place value names up to thousands
- B.3** Place value names up to hundred thousands
- B.4** Value of a digit
- B.5** Convert to/from a number
- B.6** Convert between place values
- B.7** Convert from expanded form
- B.8** Convert between standard and expanded form
- B.9** Place value word problems

11

12

13

Addition

- C.1** Add a two-digit number to a three-digit number
- C.2** Add a two-digit number to a three-digit number - word problems
- C.3** Complete the addition sentence - add a two-digit number to a three-digit number

Division fluency

- K.1** Division facts for 2, 5, 10
- K.2** Division facts for 2, 5, 10: true or false?
- K.3** Division facts for 3, 4, 6
- K.4** Division facts for 3, 4, 6: true or false?
- K.5** Division facts for 7, 8, 9
- K.6** Division facts for 7, 8, 9: true or false?
- K.7** Division facts up to 10
- K.8** Division facts up to 10: true or false?
- K.9** Division facts up to 10: sorting
- K.10** Division facts up to 10: find the missing number
- K.11** Division facts up to 10: select the missing numbers
- K.12** Division sentences up to 10: true or false?
- K.13** Division facts up to 12
- K.14** Division facts up to 12: true or false?
- K.15** Division facts up to 12: sorting
- K.16** Division facts up to 12: find the missing number
- K.17** Division facts up to 12: select the missing numbers
- K.18** Division sentences up to 12: true or false?

Division

- L.1** Complete the division table
- L.2** Division patterns over increasing place values
- L.3** Divide numbers ending in zeroes
- L.4** Division input/output tables
- L.5** Division word problems
- L.6** Divide two-digit numbers by one-digit numbers using area models
- L.7** Divide two-digit numbers by one-digit numbers
- L.8** Divide two-digit numbers by one-digit numbers: word problems
- L.9** Divide three-digit numbers by one-digit numbers using area models
- L.10** Divide using repeated subtraction
- L.11** Divide using partial quotients
- L.12** Divide three-digit numbers by one-digit numbers
- L.13** Divide three-digit numbers by one-digit numbers: word

Units of measurement

- W.1** Read a thermometer
- W.2** Reasonable temperature
- W.3** Measure using a centimetre ruler
- W.4** Which metric unit of length is appropriate?
- W.5** Compare and convert metric units of length
- W.6** Metric mixed units of length
- W.7** Which metric unit of mass is appropriate?
- W.8** Compare and convert metric units of mass
- W.9** Greater or smaller volume
- W.10** Which metric unit of volume is appropriate?
- W.11** Compare and convert metric units of volume
- W.12** Conversion tables - metric units
- W.13** Which imperial unit of length is appropriate?
- W.14** Compare and convert imperial units of length
- W.15** Which imperial unit of weight is appropriate?
- W.16** Compare and convert imperial units of weight
- W.17** Which imperial unit of volume is appropriate?
- W.18** Compare and convert imperial units of volume
- W.19** Conversion tables - imperial units
- W.20** Choose the appropriate measuring tool

Two-dimensional figures

- X.1** Identify two-dimensional shapes
- X.2** Count and compare sides and vertices
- X.3** Is it a polygon?
- X.4** Regular and irregular polygons
- X.5** Plot points to draw a polygon
- X.6** Lines, line segments and rays
- X.7** Angles greater than, less than or equal to a right angle
- X.8** Acute, right and obtuse angles
- X.9** Acute, right and obtuse angles - with a protractor
- X.10** Angles of 90, 180, 270 and 360 degrees
- X.11** Parallel and perpendicular lines

- C.4** Balance addition equations - add a two-digit number to a three-digit number
- C.5** Use compensation to add - up to three digits plus two-digits
- C.6** Add two three-digit numbers
- C.7** Addition input/output tables - up to three digits
- C.8** Add two three-digit numbers - word problems
- C.9** Complete the addition sentence - three-digit numbers
- C.10** Balance addition equations - three-digit numbers
- C.11** Add three or more numbers with up to three digits each
- C.12** Add three or more numbers with up to three digits - word problems
- C.13** Add multiples of 10, 100 or 1,000 to whole numbers
- C.14** Addition patterns over increasing place values
- C.15** Add two numbers with up to four digits
- C.16** Addition input/output tables - up to four digits
- C.17** Add two numbers with up to four digits - word problems
- C.18** Complete the addition sentence - up to four digits
- C.19** Balance addition equations - up to four digits
- C.20** Add three or more numbers with up to four digits
- C.21** Add three or more numbers with up to four digits - word problems
- C.22** Addition: fill in the missing digits

Subtraction

- D.1** Subtract a two-digit number from a three-digit number
- D.2** Subtract a two-digit number from a three-digit number - word problems
- D.3** Complete the subtraction sentence - three-digit numbers minus two-digit numbers
- D.4** Balance subtraction equations - three-digit numbers minus two-digit numbers
- D.5** Subtract three-digit numbers
- D.6** Subtraction input/output tables - up to three digits
- D.7** Subtract three-digit numbers - word problems
- D.8** Complete the subtraction sentence - three-digit numbers
- D.9** Balance subtraction equations - three-digit numbers
- D.10** Subtract multiples of 10, 100 or 1,000 from whole numbers
- D.11** Subtraction patterns over increasing place values
- D.12** Subtract numbers with up to four digits
- D.13** Subtraction input/output tables - up to four digits
- D.14** Subtract numbers with up to four digits - word problems
- D.15** Complete the subtraction sentence - up to four digits
- D.16** Subtract across zeroes

problems

- L.14** Divisibility rules for 2, 5 and 10

Mixed operations

- M.1** Addition, subtraction, multiplication and division facts
- M.2** Complete the addition, subtraction, multiplication or division sentence
- M.3** Multiplication and division facts up to 5: true or false?
- M.4** Multiplication and division facts up to 10: true or false?
- M.5** Multiplication and division facts up to 12: true or false?
- M.6** Multiplication and division sentences up to 12: true or false?
- M.7** Write numerical expressions
- M.8** Add, subtract and multiply
- M.9** Add, subtract, multiply and divide
- M.10** Input/output tables: add and subtract by 1,000
- M.11** Input/output tables
- M.12** Input/output tables: find the rule
- M.13** Add and subtract data from tables
- M.14** Addition and subtraction word problems
- M.15** Multiplication and division word problems
- M.16** Comparison word problems: addition or multiplication?
- M.17** Addition, subtraction and multiplication word problems
- M.18** Addition, subtraction, multiplication and division word problems
- M.19** Two-step addition and subtraction word problems
- M.20** Two-step multiplication and division word problems
- M.21** Two-step mixed operation word problems
- M.22** Missing operators

Properties

- N.1** Addition, subtraction, multiplication and division terms
- N.2** Understanding brackets
- N.3** Properties of addition
- N.4** Complete the equation using properties of addition
- N.5** Add using properties
- N.6** Properties of multiplication
- N.7** Distributive property: find the missing factor
- N.8** Multiply using the distributive property
- N.9** Solve using properties of multiplication
- N.10** Relate addition and multiplication
- N.11** Relate multiplication and division

Integers

- O.1** Understanding integers
- O.2** Count on a number line with

- X.12** Reflection, rotation and translation
- X.13** Translations
- X.14** Reflections
- X.15** Identify congruent shapes
- X.16** Symmetry
- X.17** Identify lines of symmetry
- X.18** Draw lines of symmetry
- X.19** Count lines of symmetry

Triangles and quadrilaterals

- Y.1** Acute, obtuse and right triangles
- Y.2** Scalene, isosceles and equilateral triangles
- Y.3** Parallel sides in quadrilaterals
- Y.4** Identify parallelograms
- Y.5** Identify trapeziums
- Y.6** Identify rectangles
- Y.7** Identify rhombuses
- Y.8** Classify quadrilaterals
- Y.9** Draw quadrilaterals

Perimeter and area

- Z.1** Perimeter of rectangles
- Z.2** Perimeter of rectilinear shapes
- Z.3** Perimeter of polygons
- Z.4** Perimeter: find the missing side length
- Z.5** Perimeter: word problems
- Z.6** Find the area of figures made of unit squares
- Z.7** Select figures with a given area
- Z.8** Select two figures with the same area
- Z.9** Tile a rectangle and find the area
- Z.10** Multiply to find the area of a rectangle made of unit squares
- Z.11** Create figures with a given area
- Z.12** Create rectangles with a given area
- Z.13** Find the area of rectangles and squares
- Z.14** Find the missing side length of a rectangle

Three-dimensional figures

- AA.1** Identify three-dimensional shapes
- AA.2** Count vertices, edges and faces
- AA.3** Identify faces of three-dimensional shapes
- AA.4** Shapes of everyday objects I
- AA.5** Shapes of everyday objects II
- AA.6** Identify objects with volume
- AA.7** Volume

Understand fractions

- BB.1** Understand fractions: fraction bars
- BB.2** Understand fractions: area models
- BB.3** Show fractions: fraction bars
- BB.4** Show fractions: area models
- BB.5** Match fractions to models
- BB.6** Fractions of a group

- D.17** Subtraction: fill in the missing digits

Understand multiplication

- 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
E.8 Write multiplication sentences for number lines

Multiplication skill builders

- F.1** Multiply by 0
F.2 Multiply by 1
F.3 Multiply by 2
F.4 Multiply by 3
F.5 Multiply by 4
F.6 Multiply by 5
F.7 Multiply by 6
F.8 Multiply by 7
F.9 Multiply by 8
F.10 Multiply by 9
F.11 Multiply by 10
F.12 Multiply by 11
F.13 Multiply by 12

Multiplication fluency

- G.1** Multiplication tables for 2, 5, 10
G.2 Multiplication facts for 2, 5, 10: true or false?
G.3 Multiplication facts for 2, 5, 10: sorting
G.4 Multiplication tables for 3, 4, 6
G.5 Multiplication facts for 3, 4, 6: true or false?
G.6 Multiplication facts for 3, 4, 6: sorting
G.7 Multiplication facts for 2, 3, 4, 5, 6 and 10: find the missing factor
G.8 Multiplication tables for 7, 8, 9
G.9 Multiplication facts for 7, 8, 9: true or false?
G.10 Multiplication facts for 7, 8, 9: sorting
G.11 Multiplication tables up to 10
G.12 Multiplication facts up to 10: true or false?
G.13 Multiplication facts up to 10: sorting
G.14 Multiplication facts up to 10: find the missing factor
G.15 Multiplication facts up to 10: select the missing factors
G.16 Multiplication sentences up to 10: true or false?
G.17 Squares up to 10×10
G.18 Multiplication tables up to 12
G.19 Multiplication facts up to 12: true or false?

- O.1** Count on a number line with negative numbers
O.3 Graph integers on number lines
O.4 Compare and order integers using a number line

Equations and variables

- P.1** Identify equations
P.2 Solve for the variable: addition and subtraction
P.3 Solve for the variable: multiplication and division
P.4 Solve for the variable: addition, subtraction, multiplication and division
P.5 Write variable expressions
P.6 Write variable expressions from word problems
P.7 Write variable equations to represent word problems

Estimation and rounding

- Q.1** Round using a number line - nearest ten or hundred
Q.2 Round to the nearest ten or hundred
Q.3 Round to the nearest ten, hundred or thousand
Q.4 Round money amounts
Q.5 Rounding puzzles
Q.6 Solve inequalities using estimation
Q.7 Estimate sums up to 1,000
Q.8 Estimate sums
Q.9 Estimate sums: word problems
Q.10 Estimate differences up to 1,000
Q.11 Estimate differences
Q.12 Estimate differences: word problems
Q.13 Estimate products: multiply by 1-digit numbers
Q.14 Estimate products: multiply by 2-digit numbers
Q.15 Estimate products: word problems
Q.16 Estimate quotients
Q.17 Estimate quotients: word problems
Q.18 Estimate sums, differences, products and quotients: word problems

Logical reasoning

- R.1** Guess the number
R.2 Largest/smallest number possible
R.3 Find the order
R.4 Age puzzles
R.5 Find two numbers based on sum and difference
R.6 Find two numbers based on sum, difference, product and quotient

Patterns

- S.1** Repeating patterns
S.2 Growing patterns
S.3 Find the next shape in a pattern
S.4 Complete a repeating pattern

- BB.7** Fractions of number lines: unit fractions
BB.8 Fractions of number lines
BB.9 Identify fractions on number lines
BB.10 Graph unit fractions on number lines
BB.11 Graph fractions on number lines
BB.12 Unit fractions: modelling word problems
BB.13 Unit fractions: word problems
BB.14 Fractions of a whole: modelling word problems
BB.15 Fractions of a whole: word problems
BB.16 Fractions of a group: word problems

Compare and order fractions

- CC.1** Graph and compare fractions with the same denominator on number lines
CC.2 Graph and compare fractions with the same numerator on number lines
CC.3 Graph and compare fractions on number lines
CC.4 Compare fractions
CC.5 Put fractions in order

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 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
DD.8 Graph fractions equivalent to 1 on number lines
DD.9 Write fractions in lowest terms

Operations with fractions

- EE.1** Fractions of a number - unit fractions
EE.2 Fractions of a number
EE.3 Fractions of a number - unit fractions: word problems
EE.4 Fractions of a number: word problems
EE.5 Decompose fractions into unit fractions
EE.6 Decompose fractions
EE.7 Add fractions with the same denominator using number lines
EE.8 Add fractions with the same denominator
EE.9 Subtract fractions with the same denominator using number lines
EE.10 Subtract fractions with the same denominator
EE.11 Add and subtract fractions with the same denominator using number lines

- G.20** Multiplication facts up to 12: sorting
- G.21** Multiplication facts up to 12: find the missing factor
- G.22** Multiplication facts up to 12: select the missing factors
- G.23** Multiplication sentences up to 12: true or false?

Multiplication

- H.1** Multiplication sentences
- H.2** Choose the multiples of 2, 3, 4, 5, 6, 10
- H.3** Choose the multiples of a given number up to 10
- H.4** Identify factors
- H.5** Complete the factor pairs of a number
- H.6** Multiply one-digit numbers by 10 or 100
- H.7** Multiply by a multiple of 10
- H.8** Multiply by multiples of 10 and 100
- H.9** Multiplication patterns over increasing place values
- H.10** Multiplication input/output tables
- H.11** Multiplication input/output tables: find the rule
- H.12** Multiplication word problems
- H.13** Multiplication word problems: find the missing factor
- H.14** Compare numbers using multiplication
- H.15** Compare numbers using multiplication: word problems
- H.16** Multiply one-digit numbers by two-digit numbers using area models I
- H.17** Multiply one-digit numbers by two-digit numbers using area models II
- H.18** Multiply one-digit numbers by two-digit numbers
- H.19** Multiply one-digit numbers by two-digit numbers: word problems
- H.20** Multiply one-digit numbers by three-digit numbers using area models I
- H.21** Multiply one-digit numbers by three-digit numbers using area models II
- H.22** Multiply one-digit numbers by three-digit numbers
- H.23** Multiply one-digit numbers by three-digit numbers: word problems
- H.24** Multiply three or more numbers
- H.25** Multiply three or more numbers: word problems

Understand division

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

- S.5** Make a repeating pattern
- S.6** Find the next row in a growing pattern

Money

- T.1** Count coins and notes - up to £5 note
- T.2** Purchases - do you have enough money - up to £10
- T.3** Which picture shows more?
- T.4** Making change
- T.5** Inequalities with money
- T.6** Put money amounts in order
- T.7** Add and subtract money - up to £1
- T.8** Add and subtract money amounts
- T.9** Add and subtract money - word problems - up to £1
- T.10** Add and subtract money amounts - word problems
- T.11** Price lists

Time

- U.1** Match clocks and times
- U.2** Match analogue and digital clocks
- U.3** Read clocks and write times
- U.4** A.M. or P.M.
- U.5** Write times
- U.6** Elapsed time: find the end time
- U.7** Find the elapsed time
- U.8** Elapsed time word problems
- U.9** Read a calendar
- U.10** Relate time units
- U.11** Time patterns
- U.12** Convert between hours and fractions of hours
- U.13** Convert between 12-hour and 24-hour time
- U.14** Reading schedules - 12-hour time
- U.15** Reading schedules - 24-hour time
- U.16** Timelines

Data and graphs

- V.1** Objects on a coordinate plane
- V.2** Graph points on a coordinate plane
- V.3** Coordinate planes as maps - find the coordinates
- V.4** Coordinate planes as maps - count the distance
- V.5** Coordinate planes as maps - find the distance or travel time
- V.6** Direction to starting point
- V.7** Interpret tally charts
- V.8** Interpret frequency charts
- V.9** Create frequency charts
- V.10** Interpret bar graphs
- V.11** Use bar graphs to solve problems
- V.12** Interpret bar graphs: two-step problems
- V.13** Create bar graphs
- V.14** Interpret bar graphs for grouped data

- EE.12** Add and subtract fractions with the same denominator
- EE.13** Compare sums and differences of fractions with the same denominator
- EE.14** Add and subtract fractions with the same denominator: word problems
- EE.15** Add 3 or more fractions with the same denominator

Decimals

- FF.1** What decimal number is illustrated?
- FF.2** Model decimals and fractions
- FF.3** Convert fractions to decimals
- FF.4** Convert decimals to fractions
- FF.5** Understanding decimals expressed in words
- FF.6** Round decimals to the nearest whole number
- FF.7** Name the place value of a given digit
- FF.8** Name the digit in a given place value
- FF.9** One-tenth or one-hundredth more or less
- FF.10** Number sequences involving decimals
- FF.11** Graph decimals on number lines
- FF.12** Decimal number lines
- FF.13** Graph fractions as decimals on number lines
- FF.14** Compare decimals using models
- FF.15** Compare decimals on number lines
- FF.16** Inequalities with decimals
- FF.17** Which decimals are greater/less?
- FF.18** Which decimal comparisons are true?
- FF.19** Put decimal numbers in order

Operations with decimals

- GG.1** Add decimal numbers using blocks
- GG.2** Add decimal numbers
- GG.3** Subtract decimal numbers
- GG.4** Add and subtract decimal numbers
- GG.5** Add and subtract decimals: word problems
- GG.6** Add three or more decimal numbers
- GG.7** Add three or more decimal numbers: word problems
- GG.8** Estimate sums and differences of decimals
- GG.9** Multiply a decimal by 10 or 100
- GG.10** Divide a whole number by 10 or 100: decimal quotients
- GG.11** Divide a decimal by 10 or 100

Probability and statistics

- HH.1** More, less and equally likely
- HH.2** Certain, probable, unlikely and impossible
- HH.3** Mean

Division skill builders

- J.1** Divide by 1
- J.2** Divide by 2
- J.3** Divide by 3
- J.4** Divide by 4
- J.5** Divide by 5
- J.6** Divide by 6
- J.7** Divide by 7
- J.8** Divide by 8
- J.9** Divide by 9
- J.10** Divide by 10
- J.11** Divide by 11
- J.12** Divide by 12

grouped data

- V.15** Create bar graphs for grouped data
- V.16** Interpret line plots
- V.17** Create line plots
- V.18** Interpret pictograms
- V.19** Create pictograms
- V.20** Interpret line graphs
- V.21** Create line graphs
- V.22** Count shapes in a Venn diagram
- V.23** Sort shapes into a Venn diagram

HH.4 Range

HH.5 Interpret charts to find mean

HH.6 Interpret charts to find range