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|---|---|---|
| **1.** | | **[Long ×,÷]** ..... **1** |
| | 1.1 | Multiplying a large number by a multiple of 10. |
| | 1.2 | Multiplying a large number by a two-digit number. |
| | 1.3 | Multiplying a large number by a large multiple of 10. |
| | 1.4 | Dividing a large number by a single digit. |
| | 1.5 | Dividing a large number by a power of 10. |
| | 1.6 | Dividing a large number by a multiple of 10. |
| | 1.7 | Dividing a whole number by a two-digit number. |
| | 1.8 | Dividing whole numbers - answer as a terminating decimal. |
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| | 2.3 | Subtracting a decimal number from a whole number. |
| | 2.4 | Adding and subtracting decimal numbers. |
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| | 3.2 | Multiplying a decimal number by powers and multiples of 10. |
| | 3.3 | Multiplying a decimal number by a negative power of 10 (e.g. 0.1). |
| | 3.4 | Multiplying a decimal number by a decimal number. |
| | 3.5 | Dividing a decimal number by a whole number. |
| | 3.6 | Dividing a decimal number by a power of 10. |
| | 3.7 | Dividing a decimal number by a negative power of 10 (e.g. 0.1). |
| | 3.8 | Dividing a decimal number by a decimal number. |
| | 3.9 | Dividing a whole number by a decimal number. |


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| **4.** | | **[Fraction +,–]** | **31** |
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| | 4.2 | Subtracting fractions with the same denominator. | |
| | 4.3 | Adding mixed numbers with the same denominator. | |
| | 4.4 | Subtracting mixed numbers with the same denominator. | |
| | 4.5 | Subtracting a fraction or a mixed number from a whole number. | |
| | 4.6 | Adding fractions with different denominators - one denominator divides evenly into the other denominator. | |
| | 4.7 | Adding fractions with different denominators - the GCF of the denominators is 1 (e.g. 2 and 3, 5 and 6). | |
| | 4.8 | Adding fractions with different denominators - the denominators have common factors ≠ 1 (e.g. 8 and 12). | |
| | 4.9 | Subtracting fractions with different denominators - one denominator divides evenly into the other denominator. | |
| | 4.10 | Subtracting fractions with different denominators - the GCF of the denominators is 1 (e.g. 2 and 3, 5 and 6). | |
| | 4.11 | Subtracting fractions with different denominators - the denominators have common factors ≠ 1 (e.g. 8 and 12). | |
| | 4.12 | Adding and subtracting fractions with different denominators. | |
| | 4.13 | Adding or subtracting mixed numbers with different denominators. | |
| **5.** | | **[Fraction ×,÷]** | **49** |
| | 5.1 | Multiplying a fraction by a whole number. | |
| | 5.2 | Multiplying two fractions. | |
| | 5.3 | Multiplying a mixed number by a fraction or by another mixed number. | |
| | 5.4 | Multiplying three fractions. | |
| | 5.5 | Dividing two fractions. | |
| | 5.6 | Dividing a whole number by a fraction. | |
| | 5.7 | Dividing a fraction by a whole number. | |
| | 5.8 | Dividing a mixed number by a fraction or by another mixed number. | |
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| | 6.4 | Finding a percent of any number. | |
| | 6.5 | Finding a percent of a quantity. | |
| | 6.6 | Finding a percent of a decimal number. | |
| | 6.7 | Working with more than 100%. | |
| | 6.8 | Finding a number knowing a percent of that number. | |
| | 6.9 | Increasing an amount by a percent. | |
| | 6.10 | Decreasing an amount by a percent. | |
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| | 7.3 | Finding equivalent fractions. | |
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| | 7.6 | Writing a fraction as a terminating decimal. | |
| | 7.7 | Writing a fraction as a repeating decimal. | |
| | 7.8 | Writing a percent as a fraction in simplest form. | |
| | 7.9 | Writing a fraction as a percent. | |
| | 7.10 | Writing a decimal number as a percent. | |
| | 7.11 | Writing a percent as a decimal number. | |
| | 7.12 | Comparing and ordering decimals, fractions and percents. | |
| | 7.13 | Calculating simple interest. | |
| | 7.14 | Calculating compound interest/growth. | |


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| | 9.6 | Dividing a quantity into a given ratio. | |
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| | 10.9 | Raising a power to another power. | |
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| | 11.5 | Multiplying square roots of perfect squares. | |
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| | 11.7 | Adding and subtracting square roots of perfect squares. | |
| | 11.8 | Estimating square roots. | |
| | 11.9 | Multiplying radicals. | |
| | 11.10 | Dividing radicals. | |
| | 11.11 | Simplifying radicals to simplest form. | |
| | 11.12 | Adding and subtracting radicals. | |
| | 11.13 | Simplifying expressions with radicals. | |



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| | 12.5 | Writing very large and very small numbers in scientific notation. | |
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| | 13.4 | Completing number patterns by multiplying or dividing by the same integer. | |
| | 13.5 | Completing number patterns involving decimals and fractions. | |
| | 13.6 | Finding a term in a number pattern. | |
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| | 15.3 | Substituting into rules. | |
| | 15.4 | Substituting into formulae. | |
| | 15.5 | Substituting into rules, expressions and formulae with brackets. | |
| | 15.6 | Substituting negative values into rules and expressions. | |
| | 15.7 | Substituting into more complex rules and expressions. | |
| | 15.8 | Substituting into more complex formulae. | |
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| | 16.4 | Expanding brackets in expressions like $-2a(b + 1)$ | |
| | 16.5 | Expanding and simplifying expressions. | |
| | 16.6 | Expanding and simplifying more complex expressions. | |
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| | 17.5 | Factoring negative terms. | |
| | 17.6 | Factoring by finding binomial factors. | |
| | 17.7 | Factoring using the difference of perfect squares. | |
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| | 18.5 | Solving equations with variables in more than one place. | |
| | 18.6 | Solving equations involving fractions. | |
| | 18.7 | Solving inequalities. | |
| | 18.8 | Solving quadratic equations. | |
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| | 19.2 | Deciding if a point is on a line of a given rule. | |
| | 19.3 | Graphing vertical and horizontal lines on a coordinate plane (e.g. $x = 1$, $y = 2$). | |
| | 19.4 | Graphing linear equations on a coordinate plane, by first completing a table of values. | |
| | 19.5 | Finding the *x*-intercept and the *y*-intercept of a linear graph. | |
| | 19.6 | Sketching linear equations by finding the *x*-intercept and the *y*-intercept. | |
| | 19.7 | Writing expressions to represent real-life situations. | |
| | 19.8 | Interpreting distance-time graphs. | |
| | 19.9 | Finding the slope of a linear graph. | |
| | 19.10 | Finding the slope, the *x*-intercept and the *y*-intercept of an equation written in the slope-intercept form $y = mx + b$. | |
| | 19.11 | Interpreting graphs describing other rates. | |
| | 19.12 | Finding the slope of a linear graph when two points are given. | |
| | 19.13 | Writing the equation of a straight line when two points are given. | |
| | 19.14 | Rewriting a linear equation in the slope-intercept form $y = mx + b$, where $m$ is the slope and $b$ is the *y*-intercept of the graph. | |
| | 19.15 | Solving a system of equations by graphing them on a Cartesian plane. | |
| | 19.16 | Completing a table of values for a non-linear function. | |
| | 19.17 | Graphing non-linear functions on a coordinate plane, by first completing a table of values. | |
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| | 20.5 | Using Euler's formula for polyhedra. | |
| | 20.6 | Recognizing line symmetry in two-dimensional shapes. | |
| | 20.7 | Recognizing nets of three-dimensional shapes. | |
| | 20.8 | Recognizing the shape of cross sections through three-dimensional shapes. | |
| | 20.9 | Drawing two-dimensional views of three-dimensional shapes. | |
| | 20.10 | Recognizing rotational symmetry in two-dimensional shapes. | |
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| | 21.6 | Working with angles in a quadrilateral. | |
| | 21.7 | Working with pairs of alternate interior, same-side interior and corresponding angles. | |
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| | 22.5 | Drawing translations, reflections and rotations on a grid or coordinate plane. | |
| | 22.6 | Recognizing and drawing enlargements and reductions on a grid or a coordinate plane. | |
| | 22.7 | Working with scales on a map. | |
| | 22.8 | Finding the scale factor of a model. | |
| | 22.9 | Recognizing congruence of two-dimensional shapes. | |
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| | 24.5 | Expressing the perimeter of two-dimensional shapes in algebraic form. | |
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| | 25.6 | Calculating the area of composite shapes. | |
| | 25.7 | Calculating the area of circles. | |
| | 25.8 | Calculating the area of composite circular shapes. | |
| | 25.9 | Expressing the area of two-dimensional shapes in algebraic form. | |
| | 25.10 | Finding the area of a shape when the height, or the diagonal, or the perimeter of the shape is given. | |

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| | 28.8 | Applying Pythagorean theorem to find the area of two-dimensional shapes. | |
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| | 29.11 | Interpreting scatter plots. | |
| | 29.12 | Interpreting frequency tables. | |
| | 29.13 | Interpreting stem-and-leaf plots. | |
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