Math 1 Pretest

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| Questions | Number correct | Skills | Practice pages | **Kaplan book** | **Paxen book** | Other resources |
| 1, 2 | /2  | Representing numbers on a number line | 8-9 | **246- 247** |  | * <https://www.mometrix.com/academy/real-numbers-and-the-number-line/>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-negative-number-topic/cc-6th-neg-dec-frac-number-line/v/points-on-a-number-line>
 |
| 3, 4 | /2 | Rounding numbers and estimation | 10-11 |  |  | * <https://www.mometrix.com/academy/rounding/>
* <https://www.khanacademy.org/math/cc-third-grade-math/imp-addition-and-subtraction/estimate-to-add-multi-digit-numbers/v/estimating-adding-large-numbers-by-rounding>
 |
| 6, 7 | /2 | Add/Subtract whole numbers and decimals | 12-13 | **248- 249, 274- 275** | **7-11****32-36** | * <https://www.khanacademy.org/math/arithmetic-home/arith-review-decimals/arithmetic-significant-figures-tutorial/v/addition-and-subtraction-with-significant-figures>
* <https://www.mometrix.com/academy/adding-and-subtracting-decimals/>
 |
| 5 | /1 | Mult/Divide whole numbers and decimals | 14-15 | **250- 251****276- 277** | **7-11****32-36** | * <https://www.mometrix.com/academy/multiplying-decimals/>
* <https://www.mometrix.com/academy/dividing-decimals/>
* <https://www.khanacademy.org/math/algebra-basics/basic-alg-foundations/alg-basics-operations-with-decimals/v/multiplying-decimals>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-decimals/v/long-division-with-decimals>
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| 10, 11 | /2 | Add/Subtract fractions | 16-17 | **280- 281** | **22-26** | * <https://www.khanacademy.org/math/cc-fifth-grade-math/imp-fractions-3/imp-adding-and-subtracting-fractions-with-unlike-denominators/v/adding-small-fractions-with-unlike-denominators>
* <https://www.mometrix.com/academy/fractions/>
 |
| 8, 9 | /2 | Mult/Divide fractions | 18-19 | **282-283** | **22-26** | * <https://www.mometrix.com/academy/multiplying-and-dividing-fractions/>
* <https://www.khanacademy.org/math/cc-fifth-grade-math/divide-fractions/relate-fraction-division-to-fraction-multiplication/v/multiplication-and-division-relationship-for-fractions>
 |
| 12, 13 | /2 | Using exponents and Roots | 20-21 | **358- 359** | **47-51** | * <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-exponents/v/introduction-to-exponents>
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:simplifying-square-roots/v/simplifying-square-roots-1](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Arational-exponents-radicals/x2f8bb11595b61c86%3Asimplifying-square-roots/v/simplifying-square-roots-1)
* [https://www.khanacademy.org/math/algebra2/x2ec2f6f830c9fb89:exp/x2ec2f6f830c9fb89:rational-exp/v/basic-fractional-exponents](https://www.khanacademy.org/math/algebra2/x2ec2f6f830c9fb89%3Aexp/x2ec2f6f830c9fb89%3Arational-exp/v/basic-fractional-exponents)
* <https://www.mometrix.com/academy/exponents/>
* <https://www.mometrix.com/academy/roots/>
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| 14,15 | /2 | Using scientific notation | 22-23 | **360- 361** | **52-56** | * <https://www.mometrix.com/academy/scientific-notation/>
* [https://www.khanacademy.org/math/in-in-class-7th-math-cbse/x939d838e80cf9307:exponents-and-powers/x939d838e80cf9307:large-numbers-in-standard-form/v/scientific-notation-old](https://www.khanacademy.org/math/in-in-class-7th-math-cbse/x939d838e80cf9307%3Aexponents-and-powers/x939d838e80cf9307%3Alarge-numbers-in-standard-form/v/scientific-notation-old)
 |
| 16 | /1 | Solving ratio and proportion  | 24-25 | **296-299** | **27-31** | * <https://www.khanacademy.org/test-prep/sat/sat-math-practice/new-sat-problem-solving-data-analysis/v/sat-math-q1-easier>
* <https://www.khanacademy.org/test-prep/sat/sat-math-practice/new-sat-problem-solving-data-analysis/v/sat-math-q1-harder>
* <https://www.khanacademy.org/test-prep/praxis-math/praxis-math-lessons/praxis-math-number-and-quantity/v/gtp--praxis-math--video--ratios-and-proportions>
* <https://www.mometrix.com/academy/ratios/>
* <https://www.mometrix.com/academy/proportions/>
 |
| 17,18 | /2 | Solving percent problems | 26-27 | **300- 311** | **42-46** | * <https://www.mometrix.com/academy/computation-with-percentages/>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-ratios-prop-topic/cc-6th-percentages/v/describing-the-meaning-of-percent>
 |
| 19, 21 | /2 | Calculating perimeter and circumference | 28-29 | **446- 449** | **69-78** | * <https://www.khanacademy.org/math/cc-third-grade-math/3rd-perimeter/imp-perimeter/v/introduction-to-perimeter>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-geometry/cc-7th-area-circumference/v/finding-radius-and-diameter-from-circumference>
* <https://www.mometrix.com/academy/area-and-perimeter/>
* <https://www.mometrix.com/academy/area-and-circumference-of-a-circle/>
* <https://www.mometrix.com/academy/area-and-perimeter-of-a-triangle/>
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| 20, 24 | /2 | Calculating area | 30-31 | **446-447** | **69-78** | * <https://www.mometrix.com/academy/area-and-perimeter/>
* <https://www.mometrix.com/academy/area-and-circumference-of-a-circle/>
* <https://www.mometrix.com/academy/area-and-perimeter-of-a-triangle/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-geometry/cc-7th-area-circumference/v/area-of-a-circle>
* <https://www.khanacademy.org/math/cc-fifth-grade-math/5th-multiply-fractions/area-of-rectangles-with-fraction-side-lengths/v/example-finding-area-with-fractional-sides>
* <https://www.khanacademy.org/math/cc-third-grade-math/imp-geometry/imp-multiply-to-find-area/v/finding-missing-side-when-given-area-math-3rd-grade-khan-academy>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-area-triangle/v/intuition-for-area-of-a-triangle>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-area-triangle/v/example-finding-area-of-triangle>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-parallelogram-area/v/intuition-for-area-of-a-parallelogram>
* <https://www.khanacademy.org/math/geometry-home/geometry-area-perimeter/geometry-area-trap-composite/v/area-of-a-trapezoid-1>
 |
| 22 | /1 | Calculating surface area | 32-33 | **456- 457** | **-------** | * <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-surface-area/v/nets-of-polyhedra>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-surface-area/v/finding-surface-area-using-net>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-surface-area/v/surface-area-from-net>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-surface-area/v/surface-area-word-problem-example>
* <https://www.mometrix.com/academy/volume-and-surface-area-of-a-right-circular-cylinder/>
* <https://www.mometrix.com/academy/volume-and-surface-area-of-a-pyramid/>
* <https://www.mometrix.com/academy/volume-and-surface-area-of-a-prism/>
* <https://www.mometrix.com/academy/volume-and-surface-area-of-a-right-circular-cone/>
* <https://www.mometrix.com/academy/volume-and-surface-area-of-a-cube/>
* <https://www.mometrix.com/academy/volume-and-surface-area-of-a-rectangular-prism/>
* <https://www.mometrix.com/academy/volume-and-surface-area-of-a-sphere/>
 |
| 23 | /1 | Calculating volume | 34-35 | **452- 455** | **104- 113** | See mometrix videos above |
| 25 | /1 | Using the Pythagorean Theorem | 36-37 | **444- 445** | **89-93** | * <https://www.mometrix.com/academy/pythagorean-theorem/>
* <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry/cc-8th-pythagorean-theorem/v/the-pythagorean-theorem>
* <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry/cc-8th-pythagorean-theorem/v/pythagorean-theorem-2>
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Math 2 Pretest

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| Questions | Number correct | Skills | Practice pages | **Kaplan book** | **Paxen book**  | Other resources |
| 1,2,3,4,5 | /5 | Using a coordinate plane | 10-11 | **400- 401** | **203- 207** | * <https://www.mometrix.com/academy/cartesian-coordinate-plane-and-graphing/>
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:foundation-algebra/x2f8bb11595b61c86:algebra-overview-history/v/descartes-and-cartesian-coordinates](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Afoundation-algebra/x2f8bb11595b61c86%3Aalgebra-overview-history/v/descartes-and-cartesian-coordinates)
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-negative-number-topic/cc-6th-coordinate-plane/v/the-coordinate-plane>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-negative-number-topic/cc-6th-coordinate-plane/v/plot-ordered-pairs>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-negative-number-topic/cc-6th-coordinate-plane/v/points-on-the-coordinate-plane>
 |
| 13 | /1 | Understanding scale and transformations | 12-13 | **444- 447** | **-----** | * <https://www.khanacademy.org/math/geometry/hs-geo-transformations/hs-geo-transformations-intro/v/introduction-to-transformations>
* <https://www.khanacademy.org/math/geometry/hs-geo-transformations/hs-geo-transformations-intro/v/dilations-intro>
* <https://www.khanacademy.org/math/geometry/hs-geo-transformations/hs-geo-transformations-intro/v/identifying-transformations>
* <https://www.khanacademy.org/math/geometry/hs-geo-transformations/hs-geo-rotations/v/points-after-rotation>
* <https://www.khanacademy.org/math/geometry/hs-geo-transformations/hs-geo-translations/v/translating-points>
* <https://www.khanacademy.org/math/geometry/hs-geo-transformations/hs-geo-translations/v/drawing-image-of-translation>
* <https://www.mometrix.com/academy/transformations-on-graphs/>
* <https://www.mometrix.com/academy/dilation/>
* <https://www.mometrix.com/academy/rotation/>
* <https://www.mometrix.com/academy/reflection/>
 |
| 6 | /1 | Working with similar figures | 14-15 | **440-443** | **94-98** | * <https://www.mometrix.com/academy/geometry-application-similar-triangles/>
* <https://www.mometrix.com/academy/proportional-change-of-dimensions/>
* <https://www.khanacademy.org/math/geometry/hs-geo-similarity/hs-geo-solving-similar-triangles/v/similarity-example-problems>
* <https://www.khanacademy.org/math/geometry/hs-geo-similarity/hs-geo-solving-similar-triangles/v/similarity-example-where-same-side-plays-different-roles>
* <https://www.khanacademy.org/math/geometry/hs-geo-similarity/hs-geo-triangle-similarity-intro/v/similar-triangle-basics>
* <https://www.khanacademy.org/math/geometry/hs-geo-similarity/hs-geo-triangle-similarity-intro/v/similarity-postulates>
* <https://www.khanacademy.org/math/geometry/hs-geo-similarity/hs-geo-triangle-similarity-intro/v/similar-triangle-example-problems>
* <https://www.khanacademy.org/math/geometry/hs-geo-similarity/hs-geo-similarity-definitions/v/testing-similarity-through-transformations>
 |
| 7, 8 | /2 | Using algebraic expressions and variables | 16-17 | **366-369** | **178- 182** | * <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-equations-and-inequalities/cc-6th-intro-equations/v/variables-expressions-and-equations>
* <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-equations-and-inequalities/cc-6th-intro-equations/v/testing-solutions-to-equation>
 |
| 9,10,11 | /3 | Solving equations | 18-19 | **388-389** | **183- 187** | * <https://www.mometrix.com/academy/equations-and-inequalities/>
* <https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-old-school-equations/v/algebra-linear-equations-1>
 |
| 12, 14 | /2 | Solving multi- step equations | 20-21 | **390- 393** | **----** | * <https://www.mometrix.com/academy/solving-two-step-equations/>
* <https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-old-school-equations/v/algebra-linear-equations-2>
* <https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-old-school-equations/v/algebra-linear-equations-3>
* <https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-old-school-equations/v/algebra-linear-equations-4>
 |
| 15 | /1 | Graphing linear equations | 22-23 | **402-403** | **208-212** | * <https://www.mometrix.com/academy/graphing-linear-equations/>
* [https://www.khanacademy.org/math/in-in-grade-9-ncert/xfd53e0255cd302f8:linear-equations-in-two-variables/xfd53e0255cd302f8:graph-of-a-linear-equation-in-two-variables/v/graphs-of-linear-equations](https://www.khanacademy.org/math/in-in-grade-9-ncert/xfd53e0255cd302f8%3Alinear-equations-in-two-variables/xfd53e0255cd302f8%3Agraph-of-a-linear-equation-in-two-variables/v/graphs-of-linear-equations)
* [https://www.khanacademy.org/math/in-in-grade-9-ncert/xfd53e0255cd302f8:linear-equations-in-two-variables/xfd53e0255cd302f8:graph-of-a-linear-equation-in-two-variables/v/plotting-x-y-relationships](https://www.khanacademy.org/math/in-in-grade-9-ncert/xfd53e0255cd302f8%3Alinear-equations-in-two-variables/xfd53e0255cd302f8%3Agraph-of-a-linear-equation-in-two-variables/v/plotting-x-y-relationships)
 |
| 16 | /1 | Finding the slope of a line | 24-25 | **404-405** | **213-217** | * <https://www.mometrix.com/academy/finding-the-slope-of-a-line/>
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:linear-equations-graphs/x2f8bb11595b61c86:slope/v/introduction-to-slope](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Alinear-equations-graphs/x2f8bb11595b61c86%3Aslope/v/introduction-to-slope)
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:linear-equations-graphs/x2f8bb11595b61c86:slope/v/positive-and-negative-slope](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Alinear-equations-graphs/x2f8bb11595b61c86%3Aslope/v/positive-and-negative-slope)
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:linear-equations-graphs/x2f8bb11595b61c86:slope/v/slope-from-table](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Alinear-equations-graphs/x2f8bb11595b61c86%3Aslope/v/slope-from-table)
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| 17 | /1 | Writing equations for lines | 26-27 | **406-407** | **----** | * <https://www.mometrix.com/academy/slope-intercept-and-point-slope-forms/>
* <https://www.mometrix.com/academy/finding-slope-intercept-equation/>
* <https://www.mometrix.com/academy/finding-the-point-slope-form-equation/>
* <https://www.mometrix.com/academy/converting-between-standard-and-slope-intercept-forms/>
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:forms-of-linear-equations/x2f8bb11595b61c86:writing-slope-intercept-equations/v/equation-of-a-line-1](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Aforms-of-linear-equations/x2f8bb11595b61c86%3Awriting-slope-intercept-equations/v/equation-of-a-line-1)
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:forms-of-linear-equations/x2f8bb11595b61c86:writing-slope-intercept-equations/v/equation-of-a-line-3](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Aforms-of-linear-equations/x2f8bb11595b61c86%3Awriting-slope-intercept-equations/v/equation-of-a-line-3)
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:forms-of-linear-equations/x2f8bb11595b61c86:writing-slope-intercept-equations/v/construct-linear-equation-context](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Aforms-of-linear-equations/x2f8bb11595b61c86%3Awriting-slope-intercept-equations/v/construct-linear-equation-context)
 |
| 18,19,20 | /3 | Solving inequalities | 28-29 | **394-395** | **198-202** | * <https://www.mometrix.com/academy/equations-and-inequalities/>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-inequalities/v/inequalities-using-multiplication-and-division>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-inequalities/v/one-step-inequalities-2>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-inequalities/v/inequalities>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-two-step-inequalities/v/solving-inequalities>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-two-step-inequalities/v/interpreting-inequalities>
* <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-two-step-inequalities/v/writing-and-using-inequalities-3>
 |
| 21 | /1 | Graphing linear inequalities | 30-31 | **----** | **----** | * <https://www.mometrix.com/academy/graphing-linear-equations/>
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:inequalities-systems-graphs/x2f8bb11595b61c86:graphing-two-variable-inequalities/v/graphing-inequalities](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Ainequalities-systems-graphs/x2f8bb11595b61c86%3Agraphing-two-variable-inequalities/v/graphing-inequalities)
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:inequalities-systems-graphs/x2f8bb11595b61c86:graphing-two-variable-inequalities/v/graphing-linear-inequalities-in-two-variables-example-2](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Ainequalities-systems-graphs/x2f8bb11595b61c86%3Agraphing-two-variable-inequalities/v/graphing-linear-inequalities-in-two-variables-example-2)
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:inequalities-systems-graphs/x2f8bb11595b61c86:graphing-two-variable-inequalities/v/graphing-linear-inequalities-in-two-variables-3](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Ainequalities-systems-graphs/x2f8bb11595b61c86%3Agraphing-two-variable-inequalities/v/graphing-linear-inequalities-in-two-variables-3)
* [https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:inequalities-systems-graphs/x2f8bb11595b61c86:graphing-two-variable-inequalities/v/graphical-system-of-inequalities](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Ainequalities-systems-graphs/x2f8bb11595b61c86%3Agraphing-two-variable-inequalities/v/graphical-system-of-inequalities)
 |
| 22 | /1 | Solving systems of linear equations | 32-33 | **408-409** | **----** | * <https://www.mometrix.com/academy/systems-of-equations/>
* <https://www.mometrix.com/academy/linear-equations-algebra/>
* <https://www.khanacademy.org/math/algebra-home/alg-system-of-equations/alg-equivalent-systems-of-equations/v/solving-systems-of-equations-by-elimination>
* <https://www.khanacademy.org/math/algebra-home/alg-system-of-equations/alg-solving-systems-of-equations-with-substitution/v/solving-systems-with-substitution>
* <https://www.khanacademy.org/math/algebra-home/alg-system-of-equations/alg-solving-systems-of-equations-with-substitution/v/practice-using-substitution-for-systems>
* <https://www.khanacademy.org/math/algebra-home/alg-system-of-equations/alg-solving-systems-of-equations-with-substitution/v/solving-linear-systems-by-substitution>
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| 23 | /1 | Identifying and evaluating functions | 34-35 | **410-421** | **---** | * <https://www.mometrix.com/academy/common-functions/>
* <https://www.mometrix.com/academy/evaluating-functions/>
* <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-function-intro/v/testing-if-a-relationship-is-a-function>
* <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-function-intro/v/relations-and-functions>
* <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-function-intro/v/graphical-relations-and-functions>
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| 24,25 | /2 | Finding measures of central tendency | 36-37 | **326-327** | **136-140** | * <https://www.mometrix.com/academy/mean-median-and-mode/>
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| 26 | /1 | Interpreting bar and line graphs | 38-39 | **318-321** | **151-155** | * <https://www.mometrix.com/academy/data-interpretation-of-graphs/>
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| 27 | /1 | Interpreting circle graphs | 40-41 | **322-323** | **156-160** | * <https://www.mometrix.com/academy/data-interpretation-of-graphs/>
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| 28 | /1 | Interpreting scatter plots | 42-43 | **330-333** | **----** | * <https://www.mometrix.com/academy/data-interpretation-of-graphs/>
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| 29 | /1 | Creating graphs from data | 44-45 | **----** | **----** | * [https://www.khanacademy.org/math/cc-2nd-grade-math/x3184e0ec:data/cc-2nd-bar-graphs/v/creating-bar-charts-1](https://www.khanacademy.org/math/cc-2nd-grade-math/x3184e0ec%3Adata/cc-2nd-bar-graphs/v/creating-bar-charts-1)
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| 30 | /1 | Investigating sampling methods and frequency tables | 46-47 | **----** | **161-165** | * <https://www.mometrix.com/academy/sampling-methods/>
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| 31,32 | /2 | Understanding probability  | 48-49 | **336-339** | **131-135** | * <https://www.mometrix.com/academy/simple-probability/>
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