

Math 7 Plus Online Resources

[Unit 1: Measuring Circles](#)

[Unit 2: Expressions, Equations, & Inequalities](#)

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[Unit 12: Associations in Data](#)

No need to pay for memberships. Do the daily free trial.

Unit Title	Resources and Practice Games
Unit 1: Measuring Circles (Same as Math 7 Unit 3)	- Unit 1 Workbook - WCPSS Math 7 Plus Unit 1 Resources - Khan Academy with Open-Up Resources
Online Games for Review ★ Calculating area, circumference, radius, and diameter 1) https://www.ixl.com/math/grade-7/circles-calculate-area-circumference-radius-and-diameter 2) https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/area-circumference-circle/e/find-the-radius-or-diameter-of-a-circle-from-the-circumference-or-area 3) https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/area-circumference-circle/e/area_of_a_circle ★ Finding circumference when given area https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/area-circumference-circle/v/circumference-from-area ★ Circle word problems https://www.ixl.com/math/grade-7/circles-word-problems ★ Semi circles https://www.ixl.com/math/grade-7/semicircles-calculate-area-perimeter-radius-and-diameter ★ Quarter circles https://www.ixl.com/math/grade-7/quarter-circles-calculate-area-perimeter-and-radius	
Unit 2: Expressions, Equations, and Inequalities (Same as Math 7 Unit 6)	- Unit 2 Workbook - WCPSS Math 7 Plus Unit 2 Resources - Khan Academy with Open-Up Resources
Online Games for Review Expressions and Equations ★ Solving equations with hanger diagrams https://solve.me.edc.org/Mobiles.html ★ Two-step equations with integers https://www.mathgames.com/skill/7.150-solve-two-step-linear-equations	

- ★ Simplifying expressions with integers and the distributive property
 - 1) <https://www.mathgames.com/skill/7.108-simplify-variable-expressions-using-properties>
 - 2) <https://www.mathgames.com/skill/7.78-distributive-property>
- ★ Solving equations with integers and combining like terms
<https://www.mathgames.com/skill/7.152-solve-equations-involving-like-terms>
- ★ Solving two-step equations with fractions and decimals
<https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-8th-two-step-equations-dec-fraction/e/two-step-equations-with-decimals-and-fractions>

Percent Change

- ★ Percent change with integers
 - 1) <https://www.mathgames.com/skill/7.32-percent-change>
 - 2) <https://www.ixl.com/math/grade-7/percent-of-change>
 - 3) <https://www.ixl.com/math/grade-7/percent-of-change-word-problems>
- ★ Percent change with finding the original amount word problems
<https://www.ixl.com/math/grade-7/percent-of-change-find-the-original-amount-word-problems>

Inequalities

- ★ Two-step inequalities
 - 1) <https://www.mathgames.com/skill/7.157-solve-two-step-linear-inequalities>
 - 2) <https://www.ixl.com/math/grade-7/solve-two-step-inequalities>
 - 3) <https://www.khanacademy.org/math/algebra-basics/alg-basics-linear-equations-and-inequalities/alg-basics-two-step-inequalities/e/interpreting-solving-linear-inequalities>
- ★ Write inequalities on a number line
<https://www.ixl.com/math/grade-7/write-inequalities-from-number-lines>
- ★ Graph inequalities on a number line
 - 1) <https://www.ixl.com/math/grade-7/graph-inequalities-on-number-lines>
 - 2) <https://www.ixl.com/math/grade-7/graph-solutions-to-two-step-inequalities>

Unit 3:
Angles, Triangles,
and Prisms
(Same as Math 7 Unit 7)

-[Unit 3 Workbook](#)
 -[WCPSS Math 7 Plus Unit 3 Resources](#)
 -[Khan Academy with Open-Up Resources](#)

Online Games for Review

Angles

- ★ Estimating angle measures without a protractor
<https://www.mathplayground.com/alienangles.html>
- ★ Identify complementary, supplementary, vertical, adjacent, and congruent angles
 - 1) <https://www.ixl.com/math/grade-8/identify-complementary-supplementary-vertical-adjacent-and-congruent-angles>
 - 2) <https://www.khanacademy.org/math/basic-geo/basic-geo-angle/vert-comp-supp-angles/e/identifying-supplementary-complementary-vertical>
- ★ Finding missing angles

- 1) <https://www.mathgames.com/skill/8.85-complementary-supplementary-vertical-and-adjacent-angles>
- 2) https://www.khanacademy.org/math/basic-geo/basic-geo-angle/vert-comp-supp-angles/e/complementary_and_supplementary_angles
- 3) <https://www.khanacademy.org/math/basic-geo/basic-geo-angle/vert-comp-supp-angles/e/complementary-and-supplementary-angles--no-visual->
- 4) https://www.khanacademy.org/math/basic-geo/basic-geo-angle/vert-comp-supp-angles/e/vertical_angles

★ Complementary and supplementary angles memory match

<http://www.xpmath.com/forums/arcade.php?do=play&gameid=104>

★ Equations and angles

- 1) <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-geometry/cc-7th-unknown-angle-algebra/e/create-equations-to-solve-for-missing-angles>
- 2) <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-geometry/cc-7th-unknown-angle-algebra/e/solving-for-unknown-angles>

Triangles

★ Triangle side lengths

- 1) <https://www.ixl.com/math/grade-7/triangle-inequality>
- 2) https://www.khanacademy.org/math/geometry/hs-geo-foundations/hs-geo-polygons/e/triangle_inequality_theorem

★ Triangle angles

- 1) <https://www.ixl.com/math/grade-7/find-missing-angles-in-triangles>
- 2) <https://www.ixl.com/math/grade-7/find-missing-angles-in-triangles-using-ratios>
- 3) https://www.khanacademy.org/math/basic-geo/basic-geometry-shapes/triangle-angles/e/triangle_angles_1
- 4) <https://www.khanacademy.org/math/basic-geo/basic-geometry-shapes/triangle-angles/e/find-angles-in-isosceles-triangles>

Volume of Prisms

★ Volume of cubes and rectangular prisms

- 1) <https://www.interactivestuff.org/sums4fun/3dboxes.html>
- 2) <https://www.ixl.com/math/grade-5/volume-of-cubes-and-rectangular-prisms>
- 3) <https://www.ixl.com/math/grade-7/volume-of-cubes-and-rectangular-prisms-word-problems>

★ Volume of triangular prisms

- 1) https://www.tutorialspoint.com/3d_figures_and_volumes/volume_of_triangular_prism_online_quiz.htm
- 2) <https://www.ixl.com/math/grade-6/volume-of-triangular-prisms>

★ Volume of square- and triangular-based pyramids

- 1) <https://www.ixl.com/math/grade-7/volume-of-pyramids>
- 2) <https://quizizz.com/admin/quiz/573376da64e56ebbb48e17d5/volume-of-pyramids>

Surface Area of Prisms

★ Surface area of cubes and rectangular prisms

- 1) <https://www.mathgames.com/skill/7.145-surface-area>

2) <https://www.ixl.com/math/grade-7/surface-area-of-cubes-and-prisms>

★ Surface area of triangular prisms

1) <https://quizizz.com/admin/quiz/582b111d4c97496701fc1207/surface-area-of-triangular-prisms>

2) https://www.tutorialspoint.com/surface_areas/surface_area_of_a_triangular_prism_online_quiz.htm

★ Surface area of square- and triangular-based pyramids

1) <https://www.ixl.com/math/grade-7/surface-area-of-pyramids>

2) <https://quizizz.com/admin/quiz/570d8beaf6142e327013a866/surface-area-pyramids>

Unit 4:
Rigid Transformations &
Congruence
(Same as Math 8 Unit 1)

-[Unit 4 Workbook](#)
-[WCPSS Math 7 Plus Unit 4 Resources](#)
-[Khan Academy with Open-Up Resources](#)

Online Games for Review

Transformations and Congruence

★ Identifying translations, reflections, and rotations

<https://www.mathgames.com/skill/8.17-identify-reflections-rotations-and-translations>

★ Applying translations, reflections, and rotations.

1) https://web.archive.org/web/20070120220524/http://www.mathsonline.co.uk/freesite_tour/game_sroom/transform/golftans.html

2) <http://www.hoodamath.com/mobile/games/transformationgolf.html> (Does include a few dilations, which is Unit 5.)

★ Congruence and transformations

1) <https://www.khanacademy.org/math/basic-geo/basic-geo-transformations-congruence/congruent-similar/e/exploring-rigid-transformations-and-congruence>

2) <https://www.mathgames.com/skill/8.76-congruent-figures-side-lengths-and-angle-measures>

★ Translations

1) <https://www.mathgames.com/skill/8.72-translations-graph-the-image>

2) <https://www.mathgames.com/skill/8.78-translations-find-the-coordinates>

3) <https://www.ixl.com/math/grade-8/translations-graph-the-image>

4) <https://www.ixl.com/math/grade-8/translations-find-the-coordinates>

★ Reflections

1) <https://www.khanacademy.org/math/basic-geo/basic-geo-transformations-congruence/basic-geo-reflections/e/performing-reflections-on-the-coordinate-plane>

2) <https://www.khanacademy.org/math/basic-geo/basic-geo-transformations-congruence/basic-geo-reflections/e/determine-reflections>

3) <https://www.mathgames.com/skill/8.73-reflections-graph-the-image>

4) <https://www.mathgames.com/skill/8.80-reflections-find-the-coordinates>

5) <https://www.ixl.com/math/grade-8/reflections-over-the-x-and-y-axes-graph-the-image>

6) <https://www.ixl.com/math/grade-8/reflections-over-the-x-and-y-axes-find-the-coordinates>

7) <https://www.ixl.com/math/grade-8/reflections-find-the-coordinates>

★ Rotations

- 1) <https://www.mathgames.com/skill/8.70-rotations-graph-the-image>
- 2) <https://www.mathgames.com/skill/8.81-rotations-find-the-coordinates>
- 3) <https://www.ixl.com/math/grade-8/rotations-graph-the-image>
- 4) <https://www.ixl.com/math/grade-8/rotations-find-the-coordinates>

Transversals and Parallel Lines

★ Identifying angles

- 1) <https://www.mathgames.com/skill/8.46-transversal-of-parallel-lines>
- 2) <https://matchthememory.com/Anglenameschapter3>
- 3) <https://mathbitsnotebook.com/Geometry/ParallelPerp/PPAngles.html>

★ Solving angles

- 1) <https://www.youtube.com/watch?v=5PcMbN46NMA>
- 2) <https://www.mathsisfun.com/geometry/parallel-lines.html>
- 3) <https://www.mathwarehouse.com/geometry/angle/parallel-lines-transversal-practice.php>

Remote Exterior Angles

- 1) <https://www.ixl.com/math/geometry/exterior-angle-theorem>
- 2) <https://www.mathwarehouse.com/geometry/triangles/angles/remote-exterior-and-interior-angles-of-a-triangle.php>

Unit 5:
Dilations, Similarity, &
Introducing Slope
(Same as Math 8 Unit 2)

-Unit 5 Workbook
-WCPSS Math 7 Plus Unit 5 Resources
-Khan Academy with Open-Up Resources

Online Games for Review

Dilations

★ Graph dilations and determine coordinates

- 1) <https://www.mathgames.com/skill/8.83-dilations-graph-the-image>
- 2) <https://www.ixl.com/math/grade-8/dilations-graph-the-image>
- 3) <https://www.mathgames.com/skill/8.45-dilations-find-the-coordinates>
- 4) <https://www.ixl.com/math/grade-8/dilations-find-the-coordinates>

★ Determine scale factor

- 1) <https://www.ixl.com/math/grade-8/dilations-scale-factor-and-classification>
- 2) <https://www.khanacademy.org/math/basic-geo/basic-geo-transformations-congruence/basic-geo-dilations/e/defining-dilations-2>
- 3) <https://www.khanacademy.org/math/basic-geo/basic-geo-transformations-congruence/basic-geo-dilations/e/dilations-center>

Similarity

★ Determine similar properties

- 1) <https://www.mathgames.com/skill/8.75-similar-and-congruent-figures>
- 2) <https://www.mathgames.com/skill/8.82-similar-figures-side-lengths-and-angle-measures>
- 3) <https://www.ixl.com/math/grade-8/side-lengths-and-angle-measures-of-similar-figures>
- 4) <https://www.ixl.com/math/grade-8/similar-and-congruent-figures>

Slope

★ Determine slope between two points

- 1) <https://www.mathgames.com/skill/8.47-find-the-distance-between-two-points>
- 2) <https://www.ixl.com/math/grade-8/find-the-distance-between-two-points>

Unit 6:

Linear Relationships

(Same as Math 8 Unit 3)

-[Unit 6 Workbook](#)

-[WCPSS Math 7 Plus Unit 6 Resources](#)

-[Khan Academy with Open-Up Resources](#)

Online Games for Review

Slope Intercept Form

★ $y = mx + b$ components

- 1) <https://www.crclessons.com/slope-intercept-game.html>
- 2) https://www.quia.com/cz/43443.html?AP_rand=443832862
- 3) <https://www.geogebra.org/m/jAktJ7jn> (Move the line to match the equation.)
- 4) <https://www.ixl.com/math/algebra-1/slope-intercept-form-graph-an-equation>
- 5) <https://www.ixl.com/math/grade-8/write-a-linear-equation-from-a-slope-and-y-intercept>
- 6) <https://www.ixl.com/math/grade-8/write-a-linear-equation-from-two-points>
- 7) <https://www.mathgames.com/skill/8.42-find-slope-from-an-equation>
- 8) <https://www.ixl.com/math/grade-8/does-x-y-satisfy-the-linear-function>

★ Determine equations and graphs

- 1) <https://www.mathgames.com/skill/8.41-find-the-slope-of-a-graph>
- 2) <https://www.ixl.com/math/grade-8/graph-a-line-from-an-equation-in-standard-form>

★ Determine equations and tables

- 1) <https://www.mathgames.com/skill/8.107-graph-a-line-from-a-function-table>
- 2) <https://www.mathgames.com/skill/8.68-write-a-rule-for-a-function-table>
- 3) <https://www.ixl.com/math/grade-8/write-a-linear-function-from-a-table>

★ Determine equations and real world contexts

- 1) <https://www.mathgames.com/skill/8.52-find-points-on-a-function-graph>
- 2) <https://www.mathgames.com/skill/8.65-constant-rate-of-change>
- 3) <https://www.mathgames.com/skill/8.69-algebra-linear-function>
- 4) <https://www.ixl.com/math/grade-8/interpret-linear-functions>

Unit 7:

Linear Equations (&
Linear Systems)

(Same as Math 8 Unit 4)

-[Unit 7 Workbook](#)

-[WCPSS Math 7 Plus Unit 7 Resources](#)

-[Khan Academy with Open-Up Resources](#)

Online Games for Review

Solving Equations and Inequalities with Variables on Both Sides

★ Both Sides of the Equal Sign (=)

- 1) http://www.softschools.com/quizzes/algebra/solving_equations_with_variables_on_both_sides/quiz5076.html

- 2) <https://quizizz.com/admin/quiz/57fd209624a589eb25540563/solving-equations-with-variables-on-both-sides>
- 3) <https://www.quia.com/rr/380806.html>
- 4) <http://www.shodor.org/interactivate/activities/AlgebraFour/> (Select Variable on Both Sides, Distributive Property, and Two-step Problems.)
- 5) <https://www.ixl.com/math/algebra-1/solve-equations-with-variables-on-both-sides>
- 6) https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:solve-equations-inequalities/x2f8bb11595b61c86:linear-equations-variables-both-sides/e/linear_equations_3
- 7) <https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:solve-equations-inequalities/x2f8bb11595b61c86:linear-equations-variables-both-sides/e/variables-on-both-sides-rational>

★ Both sides of the Inequality Sign ($<$, $>$, $\leq$, $\geq$)

- 1) https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:solve-equations-inequalities/x2f8bb11595b61c86:multistep-inequalities/e/linear_inequalities
- 2) <https://braingenie.ck12.org/skills/105479>
- 3) <https://www.ixl.com/math/algebra-1/solve-advanced-linear-inequalities>

Unit 8:
Functions and Volume
 (Same as Math 8 Unit 5)

-[Unit 8 Workbook](#)
 -[WCPSS Math 7 Plus Unit 8 Resources](#)
 -[Khan Academy with Open-Up Resources](#)

Online Games for Review

Functions

★ Evaluate with Equations and Graphs

- 1) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/8th-functions-and-function-notation/e/evaluate-functions>
- 2) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/8th-functions-and-function-notation/e/evaluate-functions-from-graph>
- 3) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/8th-functions-and-function-notation/e/function-rules-from-equations>
- 4) http://www.free-test-online.com/ccss/grade8/grade8_functions.html
- 5) https://www.mathopolis.com/questions/q.html?qs=535_12763_12760_5296_12754_5300_12762_12759_5304_12757&t=skill&skillno=413

Volume

★ Cones, Cylinders, and Spheres

- 1) <https://mathbitsnotebook.com/JuniorMath/AreaPerimeterVolume/APVvolumeCPractice.html>
- 2) <https://www.mathexpression.com/cylinder-practice.html>
- 3) <https://www.ixl.com/math/grade-8/volume-of-cylinders>
- 4) <https://www.khanacademy.org/math/basic-geo/basic-geo-volume-sa/volume-cones/e/volumes-of-cones--cylinders--and-spheres>
- 5) <https://www.khanacademy.org/math/basic-geo/basic-geo-volume-sa/volume-cones/e/volume-of-cones>
- 6) <https://www.ixl.com/math/grade-8/volume-of-cones>
- 7) <https://www.mathexpression.com/cone-practice.html>

- 8) <https://www.khanacademy.org/math/basic-geo/basic-geo-volume-sa/volume-cones/e/volume-of-spheres>
- 9) <https://www.mathexpression.com/sphere-practice.html>
- 10) <https://www.ixl.com/math/grade-8/volume-of-spheres>

Unit 9:
Exponents and
Scientific Notation
 (Same as Math 8 Unit 7)

-[Unit 9 Workbook](#)
 -[WCPSS Math 7 Plus Unit 9 Resources](#)
 -[Khan Academy with Open-Up Resources](#)

Online Games for Review

Exponents

★ Exponents practice

- 1) https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-exponents/e/positive_and_zero_exponents
- 2) <https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-exponents/e/exponents>
- 3) <https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-exponents/e/exponents-in-expressions>
- 4) <https://www.mathmammoth.com/practice/exponents>
- 5) <https://www.ixl.com/math/algebra-1/multiplication-with-exponents>

★ Determine equations and graphs

- 1) <https://www.mathgames.com/skill/8.41-find-the-slope-of-a-graph>
- 2) <https://www.ixl.com/math/grade-8/graph-a-line-from-an-equation-in-standard-form>

★ Determine equations and tables

- 1) <https://www.mathgames.com/skill/8.107-graph-a-line-from-a-function-table>
- 2) <https://www.mathgames.com/skill/8.68-write-a-rule-for-a-function-table>
- 3) <https://www.ixl.com/math/grade-8/write-a-linear-function-from-a-table>

★ Determine equations and real world contexts

- 1) <https://www.mathgames.com/skill/8.52-find-points-on-a-function-graph>
- 2) <https://www.mathgames.com/skill/8.65-constant-rate-of-change>
- 3) <https://www.mathgames.com/skill/8.69-algebra-linear-function>
- 4) <https://www.ixl.com/math/grade-8/interpret-linear-functions>

Scientific Notation

★ Simplifying and Adding, Subtracting, Multiplying, and Dividing Scientific Notation

- 1) https://www.khanacademy.org/math/pre-algebra/pre-algebra-exponents-radicals/pre-algebra-scientific-notation/e/scientific_notation
- 2) <https://quizizz.com/admin/quiz/580c1a08affa5c4c63620b51/scientific-notation-practice>
- 3) https://www.quia.com/quiz/113578.html?AP_rand=1483167558
- 4) <https://quizizz.com/admin/quiz/580c1a08affa5c4c63620b51/scientific-notation-practice>
- 5) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-scientific-notation-compu/e/adding-and-subtracting-in-scientific-notation>

- 6) https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-scientific-notation-compu/e/multiplying_and_dividing_scientific_notation

★ Scientific Notation Calculator

- 1) <https://www.calculatorsoup.com/calculators/math/scientificnotation.php>

Unit 10:
Pythagorean Theorem &
Irrational Numbers
(Same as Math 8 Unit 8)

-[Unit 10 Workbook](#)
-[WCPSS Math 7 Plus Unit 10 Resources](#)
-[Khan Academy with Open-Up Resources](#)

Online Games for Review

Pythagorean Theorem

★ Find the hypotenuse, legs, and perimeter

- 1) <https://www.mathgames.com/skill/8.57-pythagorean-theorem-find-the-hypotenuse>
- 2) <https://www.mathgames.com/skill/8.58-pythagorean-theorem-find-the-leg>
- 3) <https://www.mathgames.com/skill/8.59-pythagorean-theorem-find-the-perimeter>
- 4) <https://www.ixl.com/math/grade-8/pythagorean-theorem-find-the-length-of-the-hypotenuse>
- 5) <https://www.ixl.com/math/grade-8/pythagorean-theorem-find-the-missing-leg-length>
- 6) <https://www.ixl.com/math/grade-8/pythagorean-theorem-find-the-perimeter>

★ Real-world application

- 1) <https://www.mathgames.com/skill/8.60-pythagorean-theorem>
- 2) <https://www.ixl.com/math/grade-8/pythagorean-theorem-word-problems>

★ Converse of the pythagorean theorem

- 1) <https://www.mathgames.com/skill/8.61-converse-of-the-pythagorean-theorem>
- 2) <https://www.ixl.com/math/grade-8/converse-of-the-pythagorean-theorem-is-it-a-right-triangle>

Irrational Numbers

★ Identifying rational and irrational numbers

- 1) <https://www.mathgames.com/skill/8.9-identify-rational-and-irrational-numbers>
- 2) <https://www.ixl.com/math/grade-8/identify-rational-and-irrational-numbers>

★ Estimating roots

- 1) <https://www.ixl.com/math/grade-8/estimate-positive-and-negative-square-roots>
- 2) <https://www.ixl.com/math/grade-8/estimate-cube-roots>

Unit 11:
Probability and
Sampling
(Same as Math 7 Unit 8)

-[Unit 11 Workbook](#)
-[WCPSS Math 7 Plus Unit 11 Resources](#)
-[Khan Academy with Open-Up Resources](#)

Online Games for Review

Probability

★ Simple events

- 1) <https://www.mathgames.com/skill/7.23-probability-of-simple-events>
- 2) <https://www.ixl.com/math/grade-7/probability-of-simple-events>

3) <https://www.ixl.com/math/grade-7/probability-of-simple-events-and-opposite-events>

★ Independent and dependent events

- 1) <https://www.ixl.com/math/grade-7/identify-independent-and-dependent-events>
- 2) <https://www.mathgames.com/skill/7.76-identify-independent-and-dependent-events>
- 3) <https://www.mathgames.com/skill/7.25-probability-of-opposite-and-overlapping-events>
- 4) <https://www.mathgames.com/skill/7.185-probability-problems>
- 5) <https://www.mathgames.com/skill/7.33-probability-of-independent-and-dependent-events>
- 6) <https://www.mathgames.com/skill/7.34-compound-events-find-the-number-of-outcomes>
- 7) <https://www.ixl.com/math/grade-7/probability-of-mutually-exclusive-events-and-overlapping-events>
- 8) <https://www.ixl.com/math/grade-7/probability-of-compound-events>
- 9) <https://www.ixl.com/math/grade-7/probability-of-independent-and-dependent-events>
- 10) <https://www.thatquiz.org/tq-d/math/probability/>

★ Making Predictions

- 1) <https://www.mathgames.com/skill/7.77-making-predictions>
- 2) <https://www.mathgames.com/skill/7.186-prediction-problems>
- 3) <https://www.ixl.com/math/grade-7/make-predictions-using-theoretical-probability>
- 4) <https://www.ixl.com/math/grade-7/make-predictions-using-experimental-probability>

★ Total number of outcomes and Fundamental Counting Principle

- 1) <https://www.mathgames.com/skill/7.73-counting-principle>
- 2) <https://www.ixl.com/math/grade-7/compound-events-find-the-number-of-outcomes>
- 3) <https://www.ixl.com/math/grade-7/find-the-number-of-outcomes-word-problems>

Data Analysis

★ Mean, median, mode, and range

- 1) <https://www.mathgames.com/skill/7.89-calculate-mean-median-mode-and-range>
- 2) <https://www.mathgames.com/skill/7.90-interpret-charts-to-find-mean-median-mode-and-range>
- 3) <https://www.mathgames.com/skill/7.92-changes-in-mean-median-mode-and-range>
- 4) <https://www.mathgames.com/skill/7.165-calculate-mean>
- 5) <https://www.mathgames.com/skill/7.166-calculate-median>
- 6) <https://www.mathgames.com/skill/7.167-calculate-mode>
- 7) <https://www.mathgames.com/skill/7.168-calculate-range>
- 8) <https://www.mathgames.com/skill/7.169-interpret-charts-to-find-mean>
- 9) <https://www.mathgames.com/skill/7.170-interpret-charts-to-find-median>
- 10) <https://www.mathgames.com/skill/7.171-interpret-charts-to-find-mode>
- 11) <https://www.mathgames.com/skill/7.172-interpret-charts-to-find-range>
- 12) <https://www.bbc.co.uk/bitesize/topics/zm49q6f/articles/z99jpbk>

★ Mean Absolute Deviation (MAD)

- 1) <https://www.ixl.com/math/grade-7/calculate-mean-absolute-deviation>
- 2) <https://www.ixl.com/math/algebra-1/mean-absolute-deviation>
- 3) <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/cc-6-mad/e/calculating-the-mean-absolute-deviation--mad->

★ Biased or unbiased samples

- 1) <https://www.mathgames.com/skill/7.120-identify-representative-random-and-biased-samples>
- 2) <https://www.mathgames.com/skill/7.181-identify-representative-samples>
- 3) <https://www.mathgames.com/skill/7.182-identify-random-samples>
- 4) <https://www.mathgames.com/skill/7.183-identify-biased-samples>
- 5) <https://www.ixl.com/math/grade-7/identify-representative-random-and-biased-samples>

★ Line plots

- 1) <https://www.ixl.com/math/grade-7/interpret-line-plots>
- 2) <https://www.mathgames.com/skill/5.12-interpret-line-plots-with-up-to-5-data-points>
- 3) <http://studyjams.scholastic.com/studyjams/jams/math/data-analysis/line-plots.htm>
- 4) <https://www.khanacademy.org/math/cc-2nd-grade-math/x3184e0ec:data/cc-2nd-line-plots/e/solving-problems-with-line-plots-1>

★ Box plots/ box and whiskers plots

- 1) <https://www.ixl.com/math/grade-7/calculate-quartiles-and-interquartile-range>
- 2) https://www.transum.org/Maths/Exercise/Box_Plots.asp
- 3) <https://www.mathgames.com/skill/6.126-interpret-box-and-whisker-plots>
- 4) <https://campus.mangahigh.com/en-us/px/554?closeAction=back>

★ Histograms

- 1) <http://studyjams.scholastic.com/studyjams/jams/math/data-analysis/histograms.htm>
- 2) <https://www.mathgames.com/skill/8.87-interpret-histograms>
- 3) <https://www.ixl.com/math/grade-6/create-histograms>

★ Shape and distribution of data

- 1) <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/cc-6-shape-of-data/e/shape-of-distributions>
- 2) <https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/cc-6-shape-of-data/e/clusters--gaps--peaks--and-outliers>

Mixed Data Tasks

- 1) http://www.free-test-online.com/ccss/grade7/grade7_statistics.html
- 2) http://www.free-test-online.com/middle/8th_grade_statistics.htm
- 3) http://www.mymcas.com/Mm_g7/Mm_g7_Data_Prob_Q1/data_prob_q1_g7.htm

Unit 12:
Associations in Data
(Same as Math 7 Unit 6)

-Unit 12 Workbook
-WCPSS Math 7 Plus Unit 12 Resources
-Khan Academy with Open-Up Resources

Online Games for Review

★ Scatterplots

- 1) <https://www.mathgames.com/skill/8.51-scatter-plots>
- 2) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data/cc-8th-scatter-plots/e/constructing-scatter-plots>
- 3) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data/cc-8th-scatter-plots/e/making-good-scatter-plots>
- 4) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data/cc-8th-interpreting-scatter-plots/e/positive-and-negative-linear-correlations-from-scatter-plots>

- 5) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data/cc-8th-interpreting-scatter-plots/e/interpreting-scatter-plots>
- 6) <https://www.ixl.com/math/grade-8/identify-trends-with-scatter-plots>

★ Line of best fit

- 1) <https://www.ixl.com/math/algebra-1/scatter-plots-line-of-best-fit>
- 2) <http://www.xpmath.com/forums/arcade.php?do=play&gameid=121>
- 3) <https://quizizz.com/admin/quiz/5be7325ce28e4c001ae2f033/line-of-best-fit-game-1>
- 4) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data/cc-8th-line-of-best-fit/e/plotting-the-line-of-best-fit>
- 5) <https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data/cc-8th-line-of-best-fit/e/equations-of-lines-of-best-fit-to-make-predictions>