**BASIC SKILLS REVIEW**

The following concepts will be assessed on the Basic Skills Test at the end the unit. This is a comprehensive review of all concepts that have been taught this year. With each concept, an example, video link, and online game links are provided. Students are strongly encouraged to use this as a tool throughout the chapter and in preparation for the test.

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| **Place Value:**  Example: What does 4 mean in the number 53,149,203?  Video:  <https://www.khanacademy.org/math/arithmetic/multiplication-division/place_value/v/place-value-1>  Game:  <http://www.math-play.com/football-math-place-value-game/football-math-place-value.html> |
| **Comparing Fractions and Decimals using Inequalities**  Example: 0. 66 \_\_\_\_\_\_ 2/3  Video:  <https://www.khanacademy.org/math/arithmetic/fractions/decimals_fractions/v/decimals-and-fractions>  Games:  <http://www.sheppardsoftware.com/mathgames/decimals/scooterQuestDecFraction.htm>  <http://www.xpmath.com/forums/arcade.php?do=play&gameid=8#.USU6o_GgOCg>  <http://www.sheppardsoftware.com/mathgames/decimals/CompareDecimals.htm> |
| **Order Decimals, Integers, and Fractions**  Example: Order the following from least to greatest: 0.11, 0.101, 0.112, 0.001, 0.012  Fraction Video:  <https://www.khanacademy.org/math/arithmetic/fractions/Equivalent_fractions/v/ordering-fractions>  Decimal Video:  <https://www.khanacademy.org/math/arithmetic/decimals/decimal_place_value/v/comparing-decimals>  Games:  <http://www.softschools.com/math/fractions/games/ordering_fractions/>  <http://www.sheppardsoftware.com/mathgames/fractions/Balloons_fractions3.htm>  <http://www.sheppardsoftware.com/mathgames/decimals/BalloonPopDecimals1.htm>  <http://www.funbrain.com/ofm/index.html> |
| **Rounding**  Example: Round 8.983 to the nearest tenth  Video:  <https://www.khanacademy.org/math/arithmetic/decimals/decimal_rounding_estimation/v/rounding-decimals>  <https://www.khanacademy.org/math/arithmetic/multiplication-division/rounding_whole_numbers/v/rounding-whole-numbers-1>  Games:  <http://www.math-play.com/rounding-decimals-game-1/rounding-decimals-game.html>  <http://www.free-training-tutorial.com/decimal/decimal-sharks.html> |
| **Prime and Composite Numbers: Factors & Multiples**  Example: What is the greatest common factor of 14 and 24?  GCF Video: <https://www.khanacademy.org/math/arithmetic/factors-multiples/greatest_common_divisor/v/greatest-common-divisor>  LCM Video: <https://www.khanacademy.org/math/arithmetic/factors-multiples/least_common_multiple/v/least-common-multiple--lcm>  Games:  <http://www.fun4thebrain.com/beyondfacts/gcfsketch.html>  <http://www.math-play.com/Factors-and-Multiples-Jeopardy/Factors-and-Multiples-Jeopardy.html>  <http://www.fun4thebrain.com/beyondfacts/lcmsnowball.html> |
| **Improper Fractions and Mixed Numbers**  Example: Write 29/3 as a mixed number.  Video: <https://www.khanacademy.org/math/arithmetic/fractions/mixed_numbers/v/converting-mixed-numbers-to-improper-fractions>  <https://www.khanacademy.org/math/arithmetic/fractions/mixed_numbers/v/changing-an-improper-fraction-to-a-mixed-number>  Games:  <http://www.xpmath.com/forums/arcade.php?do=play&gameid=38#.USU-IfGgOCg>  <http://www.quia.com/cb/186132.html> |
| **Converting Fractions, Decimals, and Percents**  Example: What is 4/5 written as a percent?  Video: <https://www.khanacademy.org/math/arithmetic/fractions/decimals_fractions/v/representing-a-number-as-a-decimal--percent--and-fraction>  Games:  <http://www.math-play.com/Changing-Fractions-and-Decimals-to-Percents/changing-fractions-and-decimals-to-percents-millionaire.html>  <http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html> |
| **Decimal Operations**  Example: (8.9)(14.02) =  Adding Decimal Video: <https://www.khanacademy.org/math/arithmetic/decimals/adding_decimals/v/adding-decimals>  Subtracting Decimal Video:  <https://www.khanacademy.org/math/arithmetic/decimals/adding_decimals/v/subtracting-decimals>  Multiplying Decimals Video: <https://www.khanacademy.org/math/arithmetic/decimals/multiplying_decimals/v/multiplying-decimals>  Dividing Decimals Video:  <https://www.khanacademy.org/math/arithmetic/decimals/dividing_decimals/v/dividing-decimals>  Games:  <http://www.funbrain.com/cgi-bin/fb.cgi?A1=start0&A2=Hard&ALG=No&Submit=Let%27s+Play>  <http://www.math-play.com/Decimals-Jeopardy/decimals-jeopardy.html> |
| **Fraction Operations**  Example: 10 – 19 ¼ =  Adding/Subtracting Fraction Video: <https://www.khanacademy.org/math/arithmetic/fractions/Adding_and_subtracting_fractions/v/adding-and-subtracting-fractions>  Multiplying Fractions and Mixed Number Video: <https://www.khanacademy.org/math/arithmetic/fractions/mixed_number_mult_div/v/multiplying-fractions-and-mixed-numbers>  Dividing Fractions Video: <https://www.khanacademy.org/math/arithmetic/fractions/multiplying_and_dividing_frac/v/dividing-fractions>  Games:  <http://www.math-play.com/adding-and-subtracting-fractions-game.html>  <http://www.math-play.com/Fractions-Jeopardy/fractions-jeopardy.html>  <http://www.math-play.com/soccer-math-dividing-fractions-game/soccer-math-dividing-fractions-game.html> |
| **Percents**  Example: 80% of what number is 16?  Video: <https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/old-school-equations/v/taking-percentages>  Games:  <http://www.mathplayground.com/percent01.html> |
| **Order of Operations**  Example: 32 + 4(-2)(-1) + (-2)2  Video: <https://www.khanacademy.org/math/arithmetic/multiplication-division/order_of_operations/v/order-of-operations>  Games:  <http://www.math-play.com/Order-of-Operations-Millionaire/order-of-operations-millionaire.html>  <http://www.learnalberta.ca/content/mejhm/index.html?ID1=AB.MATH.JR.NUMB&ID2=AB.MATH.JR.NUMB.INTE&lesson=html/object_interactives/order_of_operations/use_it.html> |
| **Operations with Integers**  Example: -12 – (-10) =  Adding and Subtracting Integers Video: <https://www.khanacademy.org/math/arithmetic/absolute-value/adding_subtracting_negatives/v/adding-subtracting-negative-numbers>  Multiplying Integers: <https://www.khanacademy.org/math/arithmetic/absolute-value/mult_div_negatives/v/multiplying-positive-and-negative-numbers>  Dividing Integers: <https://www.khanacademy.org/math/arithmetic/absolute-value/mult_div_negatives/v/dividing-positive-and-negative-numbers>  Games:  <http://www.xpmath.com/forums/arcade.php?do=play&gameid=94#.USVErvGgOCg>  <http://www.quia.com/cb/250454.html> |
| **Combining Like Terms**  Example: 12x3 – 5y + (-8y) + 2 – 8x3  CLT Video: <https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/manipulating-expressions/v/combining-like-terms-1>  CLT with Distribution Video: <https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/manipulating-expressions/v/combining-like-terms-and-the-distributive-property>  Games:  <http://www.quia.com/rr/195128.html?AP_rand=2122012397>  <http://www.superteachertools.com/jeopardy/usergames/Feb201107/game1298233590.php> |
| **Equations**  Example: 7x – 5 = -23  One-Step Equation Video: <https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/equations_beginner/v/solving-one-step-equations>  Multi-Step Equation Video: <https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/equations_beginner/v/two-step-equations>  Games:  <http://www.math-play.com/One-Step-Equation-Game.html>  <http://www.xpmath.com/forums/arcade.php?do=play&gameid=64#.USVGDPGgOCg> |
| **Exponents**  Example: (-2)3 =  Video: <https://www.khanacademy.org/math/arithmetic/exponents-radicals/world-of-exponents/v/level-1-exponents>  Games:  <http://www.ezschool.com/Games/Exponents.html> |
| **Graphing**  Example: Find the slope of (-4, 5) and (3, -7).  Slope Video: <https://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/slope-and-intercepts/v/slope-and-rate-of-change>  Graphing Video: <https://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/equation-of-a-line/v/graphing-a-line-in-slope-intercept-form>  Games:  <http://www.quia.com/rr/79713.html?AP_rand=1172579868>  <http://hotmath.com/hotmath_help/games/kp/kp_hotmath_sound.swf> |
| **Probability**  Example: If given a pair of dice, what is the probably of rolling a sum of 2?  Video: <https://www.khanacademy.org/math/trigonometry/prob_comb/basic_prob_precalc/v/basic-probability>  Games:  <http://www.compasslearningodyssey.com/sample_act/34math_probably.html>  <http://www.math-play.com/Probability-Game.html> |
| **Geometry (Perimeter and Area)**  Example: Find the circumference of a circle with a diameter of 5.4 inches.  Games:  <http://www.bbc.co.uk/schools/gcsebitesize/maths/geometry/areaandperimeteract.shtml>  <http://www.bgfl.org/bgfl/custom/resources_ftp/client_ftp/ks2/maths/perimeter_and_area/index.html> |