

Math Grade 7

ORExt Standard Code	Equivalent OR Standard Code	2021 Oregon Mathematics Standards	Oregon Alternate Academic Achievement Standard (Essentialized Standard)	Low (L), Medium (M), High (H) Parameters
M07EXE1.1	7.AEE.A.1, 7.AEE.A.2	Identify and write equivalent expressions with rational numbers by applying associative, commutative, and distributive properties.	Add and subtract expressions with one variable (0-50, -1 to -10).	L: Add expressions (1-10). M: Add expressions (11-30). H: Add expression (31-50).
M07EXE2.3	7.AEE.B.3	Write and solve problems in authentic contexts using expressions and equations with positive and negative rational numbers in any form. Contexts can be limited to those that can be solved with one- or two-step linear equations.	Solve single-step real-life problems with whole numbers 1-20 and -1 to -10.	L: Solve real-life problems with A/S of numbers (1-10). M: Solve real-life problems with A/S (11-30) and M/D (0-20). H: Solve real-life problems with A/S (31-50 or -1 to -10) and M/D (21-40 or -1 to -5).
M07GEO1.1	7.GM.A.1	Solve problems involving scale drawings of geometric figures. Reproduce a scale drawing at a different scale and compute actual lengths and areas from a scale drawing.	Use geometric figure to identify changes in scale for numbers 1-20, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, and $\frac{1}{6}$.	L: Identify figures with changes in scale (1-2) x (1-5). M: Identify figures with changes in scale (1-2) x (6-10), $\frac{1}{2}$ and $\frac{1}{4}$. H: Identify figures with changes in scale (1-2) x (11-20), $\frac{1}{3}$ and $\frac{1}{6}$.
M07GEO1.2	7.GM.A.2	Draw triangles from three measures of angles or sides. Understand the possible side lengths and angle measures that determine a unique triangle, more than one triangle, or no triangle.	Identify geometric shapes, including triangles, circles, squares, rectangles, rhombuses, pentagons, and hexagons.	L: Identify triangles and squares. M: Identify circles and rectangles. H: Identify rhombuses, pentagons, and hexagons.

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M07GEO2.4	7.GM.B.3	Understand the relationship between area and circumference of circles. Choose and use the appropriate formula to solve problems with radius, diameter, circumference, and area of circles.	Use the formula for area and circumference of a circle to identify answers to area problems involving square inches and square feet.	L: Calculate area of square in square inches with areas (1-10). M: Calculate area of square in square inches and feet with areas (11-20). H: Calculate area of square or circle in square inches and feet with areas (21-40).
M07RPR1.1	7.RP.A.1	Solve problems in authentic contexts involving unit rates associated with ratios of fractions.	Compute unit rates using numbers 0-100 or -1 to -10 with tables, graphs, equations, diagrams, or verbal descriptions.	L: Identify unit rates (1-5). M: Identify unit rates (6-10). H: Identify unit rates (11-30, -1 to -5).
M07RPR1.2C	7.RP.A.2	Recognize and represent proportional relationships between quantities in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships. Identify the constant of proportionality (unit rate) within various representations.	Identify an equation when provided with a verbal description.	L: Identify equations involving A/S (0-10). M: Identify equations involving A/S (0-25) or M/D (0-10). H: Identify equations involving A/S (26-50) or M/D (11-40).

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M07STP1.2	7.DR.B.2	Collect or consider data from a random sample to compare and draw inferences about a population with an unknown characteristic of interest.	Interpret data displays, totals, or means using $<$, $>$, and $=$.	L: Compare data, totals, or means (0-10) using $<$, $>$, $=$. M: Compare data totals, or means (11-20) using $<$, $>$, $=$. H: Compare data, totals, or means (21-50) using $<$, $>$, $=$.
M07STP2.3	7.DR.C.3	Analyze two data distributions visually to compare multiple measures of center and variability	Compare totals, means (averages), and medians for different groups using visual displays.	L: Identify greater total or mean (average) for two groups (1-10). M: Identify greater or lower mean (average) for two groups (11-30). H: Identify greater mean (average) or median for 2-3 groups (31-50).
M07STP2.4	7.DR.D.4	Interpret measures of center and measures of variability for numerical data from random samples to compare between two populations, and to answer investigative questions.	Identify median and mean of a given dataset when provided with a definition.	L: Identify median/mean of 2-3 numbers in 1-10 range. M: Identify median/mean of 4-5 numbers in 11-30 range. H: Identify median/mean of 6-7 numbers in 31-50 range.
M07STP3.5	7.RP.B.4, 7.RP.B.5	Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Represent probabilities as fractions, decimals, and percents.	Identify probabilities of 50%, 25%, and 75%.	L: Identify 50% probabilities. M: Identify 25% probabilities. H: Identify 75% probabilities.

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M07STP3.7a	7.RP.B.6	Develop a probability model and use it to find probabilities of events. Compare theoretical and experimental probabilities and explain possible sources of discrepancy if any exists.	Identify probability of being selected for 1-10 grouped items out of up to 40.	L: Identify probabilities 1 out of 1 item to 1 out of 10 items. M: Identify probabilities 1-5 out of 11 items to 1-5 out of 20 items. H: Identify probabilities 6-10 out of 21 items to 6-10 out of 40 items.
M07STP3.7b	7.RP.B.6	Develop a probability model and use it to find probabilities of events. Compare theoretical and experimental probabilities and explain possible sources of discrepancy if any exists.	Compare observed frequencies using $<$, $>$, and $=$.	L: Compare frequencies (1-6). M: Compare frequencies (7-8). H: Compare frequencies (9-10).
M07TNS1.1A	7.NS.A.1	Apply and extend previous understandings of addition, subtraction and absolute value to add and subtract rational numbers in authentic contexts. Understand subtraction as adding the additive inverse, $p - q = p + (-q)$.	Use number lines and mathematical reasoning to add and subtract rational numbers, including whole numbers, decimals, percentages, and fractions, in authentic contexts.	L: Combine numbers to make zero (1-5 with -1 to -5). M: Combine numbers to make zero (6-10 with -6 to -10). H: Combine numbers to make zero (11-20 with -11 to -20).

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M07TNS1.2A	7.NS.A.2, 7.NS.A.3	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. Interpret operations of rational numbers solving problems in authentic contexts.	Multiply and divide rational numbers, including whole numbers, fractions, decimals, and percentages, and interpret their meaning in authentic contexts.	<p>L: Identify the sign for multiplication problems with positive numbers (0-10). Identify halves ($\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$) and decimals (.5) in data displays and match them. Solve multiplication and division problems involving decimals (.5, .25, .75) and whole numbers (0-10).</p> <p>M: Identify the sign for multiplication problems with positive numbers (11-20). Identify quarters ($\frac{1}{4}$, $\frac{2}{8}$, $\frac{3}{12}$, $\frac{4}{16}$) and decimals (.25) in data displays and match them. Solve multiplication and division problems involving fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{8}$) and whole numbers (11-20).</p> <p>H: Identify the sign for multiplication problems with positive numbers (21-40) and negative numbers (-1 to -5). Identify thirds ($\frac{1}{3}$, $\frac{6}{18}$, $\frac{9}{27}$) and eighths ($\frac{1}{8}$, $\frac{2}{16}$, $\frac{3}{24}$) in data displays and match them with their decimals (.75 and .125). Solve multiplication and division problems involving percentages (25%, 50%, 75%) of whole numbers</p>

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Standards not Essentialized:

Please refer to Oregon's published content standards for the full description and context of these codes.

7.AEE.B.4	7.DR.A.1	7.GM.B.4	7.NS.A.1	7.RP.A.2
		7.GM.B.4		7.RP.A.3
				7.RP.B.7
				7.RP.B.7