



 i-Ready[®] Classroom
Mathematics

to the

**2021 Tennessee Academic
Standards for Mathematics**



Grade 8

2021 Tennessee Academic Standards for Mathematics Grade 8		i-Ready Classroom Mathematics Lessons Grade 8
8.EE.C.9	By graphing on the coordinate plane or by analyzing a given graph, determine the solution set of a linear inequality in one or two variables.	One-Day Activity: Determine the Solution of Linear Inequalities
8.F	Functions (F)	
8.F.A	Define, evaluate, and compare functions.	
8.F.A.1	Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. (Function notation is not required in 8th grade.)	Lesson 15: Understand Functions Additional Content: Lesson 17: Compare Different Representations of Functions Math in Action: 431-444
8.F.A.2	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). <i>For example, given a linear function represented by a table of values and another linear function represented by an algebraic expression, determine which function has the greater rate of change.</i>	Lesson 17: Compare Different Representations of Functions Additional Content: Lesson 16: Use Functions to Model Linear Relationships Math in Action: 431-444

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8.F.A.3	Know and interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. <i>For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points (1,1), (2,4) and (3,9), which are not on a straight line.</i>	<p>Lesson 15: Understand Functions Lesson 16: Use Functions to Model Linear Relationships</p> <p>Additional Content: Lesson 9: Derive and Graph Linear Equations of the Form $y = mx + b$; Lesson 16: Use Functions to Model Linear Relationships; Lesson 17: Compare Different Representations of Functions; Lesson 30: Write and Analyze an Equation for Fitting a Linear Model to Data</p> <p>Math in Action: Unit 4 pp. 431-444</p>
8.F.B	Use functions to model relationships between quantities.	
8.F.B.4	Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	<p>Lesson 16: Use Functions to Model Linear Relationships</p> <p>Additional Content: Lesson 12: Understand Systems of Linear Equations in Two Variables; Lesson 13: Solve Systems of Linear Equations Algebraically; Lesson 14: Represent and Solve Problems with Systems of Linear Equations; Lesson 17: Compare Different Representations of Functions; Lesson 18: Analyze Functional Relationships Qualitatively; Lesson 30: Write and Analyze an Equation for Fitting a Linear Model to Data</p> <p>Math in Action: Unit 4 pp. 431-444</p>

