## F Functions

- 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.
- Interpret graphs of proportional relationships (8-I.9)
- Identify functions (8-Z.1)
- Does $(x, y)$ satisfy the linear function? (8-Z.3)
- Evaluate a linear function (8-Z.8)
- Complete a table for a linear function (8-Z.9)
- Complete a table and graph a linear function (8-Z.10)
- Interpret points on the graph of a linear function (8-Z.11)
- Find values using function graphs (8-Z.21)
- Complete a table for a function graph (8-Z.22)
- 8.F.A. 2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).
- Compare linear functions: graphs and equations (8-Z.13) (12)
- Compare linear functions: tables, graphs, and equations (8Z.14)
- 8.F.A. 3 Interpret the equation $y=m x+b$ as defining a linear function whose graph is a straight line; give examples of functions that are not linear.
- Graph a line from an equation in slope-intercept form (8-Y.6) (84)
- Identify linear and nonlinear functions: graphs and equations (8-Z.17)
- Identify linear and nonlinear functions: tables (8-Z.18)

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## Checkpoint opportunity

- Checkpoint: Understand functions (8-Z.)
- Checkpoint: Compare functions (8-Z.)
- Checkpoint: Linear and nonlinear functions (8-Z.)
- 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.
- Write equations for proportional relationships from tables (8I. 2)
- Write equations for proportional relationships from graphs (8I.5)
- Find the slope of a graph (8-Y.1)
- Find the slope from two points (8-Y.2)
- Slope-intercept form: find the slope and $y$-intercept (8-Y.4)
- Graph a line using slope (8-Y.5)
- Write a linear equation from a slope and $y$-intercept (8-Y.8)
- Write a linear equation from a graph (8-Y.9)
- Write a linear equation from a slope and a point (8-Y.10) (90)
- Write a linear equation from two points (8-Y.11) (58)
- Constant rate of change (8-Z.7)
- Write a linear function from a table (8-Z.12)
- Write linear functions: word problems (8-Z.15)
- 8.F.B. 5 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.
- Write linear functions: word problems (8-Z.15)
- Checkpoint opportunity
- Checkpoint: Construct and interpret linear functions (8-Z.)
- Checkpoint: Sketch and describe graphs (8-Z.)

