



PARENT FUNCTIONS

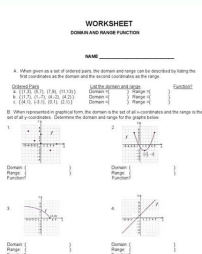
FUNCTION NAME	PARENT FUNCTION	GRAPH	CHARACTERISTICS
LINEAR	$f(x) = x$		Domain: All real numbers Range: All real numbers Slope: $m = 1$ y-intercept: $(0, 0)$
QUADRATIC	$f(x) = x^2$		Domain: All real numbers Range: $y \geq 0$ Vertex: $(0, 0)$ Axis of Symmetry: $x = 0$
EXPONENTIAL	$f(x) = b^x$ $b > 1$		Domain: All real numbers Range: $y > 0$ y-intercept: $(0, 1)$ Horizontal Asymptote: $y = 0$
ABSOLUTE VALUE	$f(x) =  x $		Domain: All real numbers Range: $y \geq 0$ Vertex: $(0, 0)$ Axis of Symmetry: $x = 0$
SQUARE ROOT	$f(x) = \sqrt{x}$		Domain: $x \geq 0$ Range: $y \geq 0$ y-intercept: $(0, 0)$

The Math Academy 2015

KEY Write the Domain and Range for each graph. (Version C)

D: $[-1, 1]$ R: $[0, 2]$	D: $(-\infty, \infty)$ R: $[1, \infty)$	D: $(-\infty, \infty)$ R: $(-\infty, 1]$	D: $\{1\}$ R: $[0, 2]$
D: $[-1, 1]$ R: $[1, 2]$	D: $(-\infty, \infty)$ R: $\{1\}$	D: $(-\infty, \infty)$ R: $[-1, \infty)$	D: $\{1\}$ R: $(1, 2]$
D: $[-1, 1]$ R: $[-1, 1]$	D: $[0, 1]$ R: $[0, 1]$	D: $[-1, 1]$ R: $[-1, 1]$	D: $[-1, 1]$ R: $[-1, 1]$
D: $[-1, 1]$ R: $[-1, 1]$	D: $[0, 1]$ R: $[0, 1]$	D: $[-1, 1] \cup [1, \infty)$ R: $[-1, 1] \cup [1, \infty)$	D: $[-1, 1] \cup [2, \infty)$ R: $(-\infty, 1] \cup [2, \infty)$

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Person	Female	Male
1	0.10	0.10
2	0.12	0.12
3	0.08	0.08
4	0.16	0.16
5	0.08	0.10

4. Show that the means are similar. 2.2 for females and 2.12 for males. Begin by showing the mean for females is 2.2. Choose the correct answer below.
- A.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.08 + 2.2$
  - B.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.08 + 2.2$
  - C.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.08 + 2.2$
  - D.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.08 + 2.2$
- Now show the mean for males is 2.12. Choose the correct answer below.
- A.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.12 + 2.12$
  - B.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.12 + 2.12$
  - C.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.12 + 2.12$
  - D.  $0 + 0.20 + 1 + 0.12 + 2 + 0.08 + 3 + 0.16 + 4 + 0.12 + 2.12$
5. The standard deviation for females is 0.748 and 1.075 for the males. Explain why a practical implication of the values for the standard deviations is that males hold less consistent views than females about the ideal family size. Choose the correct answer below.

# Domain and Range Worksheet 2015

- $(-\infty, 4)(4, \infty)$
- $(-\infty, -\frac{2}{3})(-\frac{2}{3}, 4)(4, \infty)$
- $[0, \infty)$
- $(-\infty, \infty)$
- $(-\infty, -2)(-2, 2)(2, \infty)$
- $(-\infty, -\frac{7}{2})(-\frac{7}{2}, \frac{1}{2})(\frac{1}{2}, \infty)$
- $(-\infty, \infty)$
- $[-8, \infty)$
- $(-\infty, 0)(0, 9)(9, \infty)$
- $(-\infty, \infty)$
- $(-\infty, \infty)$
- $(-\infty, \infty)$
- yes D:  $[-4, \infty)$
- no D:  $[0, \infty)$
- yes D:  $(-\infty, \infty)$
- R:  $[0, \infty)$
- R:  $(-\infty, \infty)$
- R:  $(0, \infty)$
- no D:  $[-2, .2]$
- yes D:  $(-\infty, 3]$
- yes D:  $(-\infty, \infty)$
- R:  $[-4, 4]$
- R:  $(-\infty, 0)$
- R:  $[-5, \infty)$
- yes; D:  $\{2, 3, 4, 5\}$
- no; D:  $\{1\}$
- R:  $\{10, 15, 40\}$

R:  $\{3, 5, 7, 9\}$

Domain and range of a graph worksheet with answers. Domain and range interval notation worksheet with answers. Inverse of functions more domain and range worksheet with answers. Domain and range of exponential functions worksheet with answers. Find the domain and range of a function worksheet with answers. Domain and range of quadratic function worksheet with answers. Domain and range of functions worksheet with answers. Domain and range word problems worksheet with answers.

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Identifying Functions from Mapping Diagrams Worksheets These Algebra 1 Domain and Range Worksheets will produce problems for identifying whether mapping diagrams are functions or not. You can select the types of values as well as the number of values in each mapping diagram. These Domain and Range Worksheets are a good resource for students in the 9th Grade through the 12th Grade. Identifying Functions from Ordered Pairs Worksheets These Algebra 1 Domain and Range Worksheets will produce problems for finding the domain and range of sets of ordered pairs. You can select the range of numbers used in ordered pairs as well as whether the sheet should ask if each set of pairs is a function or not. These Domain and Range Worksheets are a good resource for students in the 9th Grade through the 12th Grade. Identifying Functions from Graphs Worksheets These Algebra 1 Domain and Range Worksheets will produce problems for identifying whether graphed sets are functions or not. 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The speed of the pebble as it falls to the ground is a function is  $v(d) = \sqrt{(2gd)}$  where  $d$  is the distance, in meters, the pebble has fallen,  $v(d)$  is the speed of the pebble, in meters per second (m/s) and  $g$  is the acceleration due to gravity—about 9.8 meters per second squared (m/s<sup>2</sup>). Determine the domain and range of  $v(d)$ , the pebble's speed.6. Vitaly and Sherry have 24 m of fencing to enclose a rectangular garden at the back of their house.a) Express the area of the garden as a function of its width.b) Determine the domain and range of the area function. 1. Answer : This is a linear function, so  $x$  and  $y$  can be any value.Domain =  $\{x \in \mathbb{R}\}$ Range =  $\{y \in \mathbb{R}\}$ 2. Answer : This is a quadratic equation in vertex form. The function has a maximum value at the vertex  $(-1, 6)$ .  $x$  can be any value.Domain =  $\{x \in \mathbb{R}\}$ Range =  $\{y \in \mathbb{R} \mid y \leq 6\}$ 3. Answer : We cannot take the square root of a negative number, so  $(2 - x)$  must be positive or zero. $2 - x \geq 0x \leq 2$ Domain =  $\{x \in \mathbb{R} \mid x \leq 2\}$  $\sqrt{(2 - x)}$  means the positive square root, so  $y$  is never negative.Range =  $\{y \in \mathbb{R} \mid y \geq 0\}$ 4. Answer : The given function is a rational function. To find the domain of a rational function, we have to find the value of  $x$  that makes the denominator zero. In  $1/(x - 2)$ , if we substitute  $x = 2$ , the denominator becomes zero and it is undefined. So,  $p(x)$  is defined for all real values of  $x$  except  $x = 2$ . Domain of  $p(x) = \mathbb{R} - \{0\}$ To find range of the rational function above, find the inverse of  $p(x)$ . $p(x) = 1/(x - 2)y = 1/(x - 2)$ Interchange the variables  $x = 1/(y - 2)$ Solve for  $y$  in terms of  $x$ .  $(y - 2)x = 1y - 2 = 1/x + 2y = 1/x + 2y = (1 + 2x)/xy = (2x + 1)/x$  $p^{-1}(x) = (2x + 1)/x$ Find the domain of  $p^{-1}(x)$ .In  $(2x + 1)/x$ , if we substitute  $x = 0$ , the denominator becomes zero and it is undefined. So,  $p^{-1}(x)$  is defined for all real values of  $x$  except  $x = 0$ . Domain of  $p^{-1}(x) = \mathbb{R} - \{0\}$ Range of  $p(x) =$  Domain of  $p^{-1}(x)$ Range of  $p(x) = \mathbb{R} - \{0\}$ 5. Answer :  $d = 0$  when the pebble begins to fall, and  $d = 346$  when it lands. So, the domain is  $0 \leq d \leq 346$ .The pebble starts with speed 0 m/s.  $v(0) = v(d) = \sqrt{(2 \cdot 9.8 \cdot 0)} = 0$ When the pebble lands,  $d = 346$ . $v(346) = \sqrt{(2 \cdot 9.8 \cdot 346)} = \sqrt{6781.6} = 82.4$ The domain is  $\{d \in \mathbb{R} \mid 0 \leq d \leq 346\}$ and the range is  $\{v(d) \in \mathbb{R} \mid 0 \leq v(d) \leq 82.4\}$ 6. Answer : They need fencing on only three sides of the garden because the house forms the last side. Let the width of the garden be  $x$  m. Then the length is  $(24 - 2x)$ . Let  $A(x)$  be the area of the garden.  $A(x) = x(24 - 2x) = 24x - 2x^2 = -2x^2 + 24x = -2(x^2 - 12x) = -2[x^2 - 2(x)(6) + 6^2 - 6^2] = -2[(x - 6)^2 - 36]A(x) = -2(x - 6)^2 - 72$ The smallest the width can approach is 0 m. The largest the width can approach is 12 m.Domain =  $\{x \in \mathbb{R} \mid 0$

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