## Quilzizz

Ch. 1 Functions (Summative Review) 35 Questions

1. Evaluate $f(-2)$ if $f(x)=x+3$a) -1
c) 5b) 1d) -5
2. Given
$f(x)=2 x^{2}+5 x-17$, find $f(-1)$.a) $f(-1)=-20$

NAME : $\qquad$
$\qquad$ DATE : $\qquad$ _
3.

$$
h(t)=-t+3 ; \text { Find } h(-5) \quad \text { Evaluate the function for the given value: }
$$a) 8b) -7c) 6d) 2

4. $w(x)=2 x^{3}+3 x$; Find $w(3) \quad$ Evaluate the function for the given value:a) -5b) 63c) 450d) 5
5. 



What is the range of the relation shown on the mapping diagram?a) $R:\{3,5,8\}$c) $R:\{3,5,8,12\}$
b) $R:\{-7,11\}$d) R:\{all real numbers\}
6. A set of ordered pairs is called what?a) Coordinatesb) Relationc) Functiond) Vertical Line Test
7. Given the points $(3,5)(2,4)(9,0)$ and $(?, 6)$. What could replace the ? to create a non-function?a) 1b) 3c) 4d) 7
8. Which ordered pair could you add to the following list of points to create a function? $(3,5)(4,9)(2,5)$a) $(3,7)$b) $(4,1)$c) $(1,9)$d) $(2,6)$
9.

| $x$ | 1 | 2 | 3 | 2 |
| :---: | :---: | :---: | :---: | :---: |
| $y$ | 1 | 4 | 9 | -4 |a) Yes, there is a repeated $x$-value.c) Yes, there are repeated $y$-values.

Does the table represent a function?
10.
a) Yesb) Noc) Sometimesd) IDK
a) Functionb) Not a Function
12.


Which graph does NOT pass the vertical line test?a) Graph 1
b) Graph 2c) Graph 3d) Graph 4
13.
a) Function
14. What is the definition of function?a) Has inputs and outputsb) Every input has only ONE outputc) Inputs have different outputs every time
15. Which set of values is a function?a) $(9,5)(10,5)(9,-5)(10,-5)$c) $(6,-5)(7,-3)(8,-1)(9,1)$
16. For the function $f(x)=-3(x-1)$ find $f(0)$.a) 0c) 3b) -3d) -1

17.
a) 1c) 0
18.

What is $f(1)$ ?

What is $x$ if
$f(x)=-2$ ?
a) 4
c) 3
b) 0
d) 8
19. Given $h(x)=-x^{2}+3 x$, find $h(5)$.a) $h(5)=40$b) $h(5)=-10$
20. For the function, $y=2 x^{4}+3$, which variable represents the input?a) $y$b) $x$c) $q$d) s
21. For the function $\{(0,1),(1,-3),(2,-4),(-4,1)\}$, write the domain and range.
a) $\mathrm{D}:\{1,-3,-4$,
R: $\{0,1,2,-4\}$b) $\mathrm{D}:\{0,1,2,-4\}$
R:\{1, $-3,-4\}$c) $\mathrm{D}:\{0,1,2,3,4\}$

R:\{1, -3, -4\}
22.
a) $-4<x \leq 5$c) $-3<y<3$
23.


Domain:

What is the domain?
b) $-4 \leq x<5$d) $-3 \leq y \leq 3$

IS THIS GRAPH DISCRETE AND CONTINUOUS?
a) CONTINUOUS
24.
a) DISCRETE
25.
a) $-7 \leq x<5$c) $-3 \leq y<1$

IS THIS GRAPH DISCRETE AND CONTINUOUS?
$\square$ b) CONTINUOUS
What is the range of the graph?
b) $-3 \leq x<1$d) $-7 \leq y<5$
26.
a) $-3 \leq y<2$c) $-7 \leq y \leq 2$
27.


What is the Range?
b) $-3<y \leq 2$d) $-7 \leq y<2$

What is the domain of the graph?
a) $-3 \leq x \leq 3$c) $-2 \leq x \leq 10$b) $3 \leq x \leq-3$d) $-3 \leq x \leq 10$
28. The function $\mathrm{h}(\mathrm{t})$ represents the height in inches of a plant after t weeks. What does the notation $\mathrm{h}(4)=5$ mean?a) After 5 week the plant is 4 inches tallc) After 4 weeks the plant is 5 inches tall
b) The plant grows at a rate of $5 / 4$ inch per weekd) The plant grows at a rate of 1 inch per week
29. The function $c(m)=1.45 m+3.50$ represents the cost of a taxi for $m$ miles.
What does $c(7)$ represent?a) A cost of $\$ 7$ to ride the taxib) The cost to ride 7 milesc) The minimum distance to ride a taxid) The minimum cost of a taxi
30. Derek works at Subway making $\$ 9.25$ an hour. The function $d(x)=9.25 x$ tells us how much money Derek makes after $x$ hours of working. What is the meaning of $d(4)=37$ ?a) After 4 hours of work, Derek makes $\$ 37$.b) Derek needs $\$ 4$ more to have $\$ 37$ total.c) After working for 4 days, Derek makes $\$ 37$ total.d) After 4 hours of work, Derek now makes $\$ 37$ an hour instead of $\$ 9.25$.
31. Ms. Brackemyer is collecting pencils. The function $p(x)=5 x+12$ tells us the total amount of pencils Ms. Brackemyer has after collecting for x number of days. What is the meaning of $p(8)=52$ ?a) Ms. Brackemyer starts with 8 pencils and ends with 52.c) Ms. Brackemyer starts with 52 pencils and gets 4 more every day.d) Every day, Ms. Brackemyer gets 4 new pencils until she has 52.
32. A company is selling bubble gum. The function $g(x)=3 x+4$ tells the company how much to charge if someone buys $x$ packages of bubble gum. Find $g(8)$ and tell what it means within the context of the problem.a) $g(8)=8$. This means that after 8 packages of gum, the company makes $\$ 8$.b) $g(8)=42$. This means that 8 packages of gum costs $\$ 42$.c) $g(8)=28$. This means that 8 packages of gum $\square$d) $g(8)=24$. This means that 8 packages of gum costs $\$ 28$. costs $\$ 24$.
33. For the function $f(x)=-3(x-1)$ find $f(0)$.a) 0b) -3c) 3d) -1
34.


Using the graph, what does $f(8)$ equal?a) 8c) 1
35. Given $f(x)=$
$2 x^{2}+5 x-17$, find $f(-1)$.a) $f(-1)=-20$
b) 2
$\square$ d) 0

