# Quizızz <br> EOC (Replacement) Assessment 

NAME : $\qquad$
CLASS : $\qquad$
DATE : $\qquad$
22 Questions
1.


Which data set COULD NOT be represented by the histogram shown?a) $\{8,3,5,7,12,7,1,3,5,12\}$
c) $\{8,2,5,9,12,7,1,3,5,13\}$
b) $\{9,3,5,13,11,7,1,3,5,9\}$d) $\{9,3,4,4,12,11,1,3,6,9\}$
2. Solve the system of equations.
$6 x+3 y=9$
$2 x+3 y=1$a) $x=2, y=-1$b) $x=-1, y=2$c) $x=-1 / 2, y=3$d) $x=3, y=-1 / 2$
3. Determine the maximum or minimum value of the function defined by the expression: $x^{2}-6 x+5$
a) minimum value at 5b) maximum value at 4
c) minimum value at -4d) maximum value at -5
4.

| Team 1 | Team 2 |
| :---: | :---: |
| 18 | 19 |
| 22 | 20 |
| 24 | 26 |
| 22 | 28 |
| 18 | 25 |
| 25 | 29 |
| 30 | 34 |
| 33 | 37 |
| 35 | 39 |
| 28 | 32 |
| 22 | 27 |
| 24 | 26 |
| 20 | 25 | league. Each team has 13 players and the ages of the team members are shown in the tables. Which statement is true?

a) The mean for team 1 is greater than the mean for team 2.
c) The median for team 2 is greater than the median for team 1.b) The median for team 1 is greater than the median for team 2.
d) The value of Q1 for team 1 is greater than the value of Q1 for team 2.
5. The scale on the map says that 1.5 cm represents 40 miles. On the map the distance between Columbia, SC and Atlanta is 7 cm . Which is the correct proportion to use for finding the real distance between the cities?
a) none of theseb) $\frac{1.5}{40}=\frac{7}{x}$
$\square$ c) $\frac{1.5}{7}=\frac{x}{40}$ $\square$ d) $\frac{40}{1.5}=\frac{7}{x}$
6. Jillian has $\$ 50$ that she plans on investing in an account that will double her money every week. This can be represented
by the equation $M=50(2)^{x}$ where $M$ represents the amount of money she has and $x$ represents the number of weeks that have passed. If she invested it in an account that tripled her money every week, what should be changed in the equation $M=50(2)^{x}$ to represent the new situation?
$\square$ a) Replace the 2 with a 3.
b) Replace the 50 with 150.
c) Replace the 50 with a 3 .
d) Switch $M$ and $x$
7. Simplify: $3 x(-11 x+1)$a) $-33 x^{2}+3 x$c) $-33 x+1$
8.


What is the maximum value of the function shown on the graph?
a) -1c) 0
9.

b) $-33 x^{2}+1$
d) $-30 x$b) -2
d) 1

The histogram shows the number of minutes that users waited to register for classes on a university's online system. How many users are represented on the histogram?
a) 10
c) 24
b) 19
$\square$ d) 150
10. What is the average rate of change of $f(x)=-3^{x}+79$ over the interval $2 \leq x \leq 4$ ?
a) -124b) -18
c) -36
d) -96
11. Find $f(-5)$ when $f(x)=-4 x+3$a) -17c) 12b) -7d) 23
12.
a) 0.80 secondsc) 2 seconds
13.


The graph $h=-16 t^{2}+25 t+15$ models the height and time of a ball that was thrown off of a building where $h$ is the height in feet and $t$ is the time in seconds. At about what time did the ball reach the maximum height?

What percentage of latecomers blamed delays at the security gate for their tardiness? (nearest whole percent)
14.


Which inequality does the given graph represent?
a) $y>-3 x+2$
b) $y \leq 3 x-2$
c) $y \leq-3 x-\frac{1}{2}$d) $y>3 x-2$
15. Solve : $3(x+1)-2 x=-6$
a) $x=1$b) $x=5$c) $x=-7$
d) $x=-9$
16. What is the average rate of change for $f(x)=2^{x}-4$ over the interval $2 \leq x \leq 6$ ?a) 8
b) 10c) 15d) 18
17.


Identify the range of the function.
a) $(2,8)$
b) $[2,8]$
c) $(-5,9)$d) $[-5,9]$
18.


Compare the algebraically expressed function
$f(x)=-8 x^{2}+4 x+2$ to the function shown in the graph to determine which statement is true.
a) The algebraic function has a greater maximum value.b) The algebraic function has a lower minimum value.
c) The graphed function has a greater maximum value.
d) The graphed function has a lower minimum value.
19. A car salesperson earns a base salary plus commission for every car he sells. The expression shows the amount the salesperson earns, if he sells $x$ cars in a month.
$2,000+1,000 x$

If the salesman does not sell a car, how much money does he earn for the month?a) $\$ 0$
b) $\$ 1,000$
c) $\$ 2,000$
d) $\$ 3,000$
20. Solve the quadratic equation for $x$. What is the largest solution to the equation: $5 x^{2}+30 x+25=0$ ?a) $x=5$
b) $x=1$c) $x=-1$
d) $x=-5$
21. Simplify the expression completely. $\sqrt{5}(8-3 \sqrt{5})$
a) $\sqrt{5}$
b) $5 \sqrt{5}$
c) $11 \sqrt{5}$
d) $8 \sqrt{5}-15$
22. Subtract $\left(5 y^{3}+6 y+3 y^{4}\right)$ from $\left(4 y^{4}-8 y^{3}\right)$.
a) $y^{4}-13 y^{3}-6 y$
b) $y^{4}-13 y^{3}+6 y$
c) $9 y^{4}-13 y^{3}-6 y$
d) $y^{4}+13 y^{3}-6 y$

