Quizizz	NAME :	
EOC (Replacement) Assessment		
22 Questions		



- 3. Determine the maximum or minimum value of the function defined by the expression: x<sup>2</sup> 6x + 5
  □ a) minimum value at 5
  □ b) maximum value at 4
- $\Box$  c) minimum value at -4  $\Box$  d) 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

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Two teams are playing in the finals for an adult softball 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.
- □ b) The median for team 1 is greater than the median for team 2.
- $\Box$  c) The median for team 2 is greater than the  $\Box$  d) The value of Q1 for team 1 is greater than median for team 1.
  - 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?

$$\square a) \text{ none of these} \qquad \square b) \frac{1.5}{40} = \frac{7}{x}$$
$$\square c) \frac{1.5}{7} = \frac{x}{40} \qquad \square d) \frac{40}{1.5} = \frac{7}{x}$$

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  $\,M=50\left(2
ight)^x\,$  to represent the new situation?

- $\Box$  a) Replace the 2 with a 3. □ b) Replace the 50 with 150.
- $\Box$  c) Replace the 50 with a 3.  $\Box$  d) Switch *M* and *x*

- 7. Simplify: 3x(-11x+1)
- □ a)  $-33x^2 + 3x$ □ b)  $-33x^2 + 1$ □ c) -33x + 1□ d) -30x





10. What is the average rate of change of  $\ f\left(x
ight)=-3^{x}+79$  over the interval  $\ 2\leq x\leq 4?$ 

□ a) -124	🗌 b) -18
□ c) -36	🗌 d) -96

 11. Find f(-5) when f(x) = -4x + 3 

  $\Box$  a) -17
  $\Box$  b) -7

  $\Box$  c) 12
  $\Box$  d) 23



□ c) 38%

□ d) 42%

14.

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Which inequality does the given graph represent?

$\square$ a) $y>-3x+2$	$\square$ b) $y \leq 3x-2$
$\square$ c) $y \leq -3x - rac{1}{2}$	$\Box$ d) $y>3x-2$

- 15. Solve: 3(x + 1) 2x = -6 

    $\Box$  a) x = 1
    $\Box$  b) x = 5

    $\Box$  c) x = -7
    $\Box$  d) x = -9
- 16. What is the average rate of change for  $\ f\left(x
  ight)=2^{x}-4$  over the interval  $\ 2\leq x\leq 6?$
- □ a) 8 □ b) 10 □ c) 15 □ d) 18





18.

-0.5

-4-6

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Compare the algebraically expressed function  $f\left(x
ight)=-8x^{2}+4x+2\,$  to the function shown in the graph to determine which statement is true.

- □ a) The algebraic function has a greater maximum value.
- □ c) The graphed function has a greater maximum value.
- □ b) The algebraic function has a lower minimum 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 + 1,000x

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:  $5x^2 + 30x + 25 = 0$  ?
- □ a) x = 5 □ b) x = 1 □ c) x = -1 □ d) x = -5
- Simplify the expression completely.  $\sqrt{5}\left(8-3\sqrt{5}
  ight)$ 21.  $\Box$  b)  $5\sqrt{5}$  $\Box$  a)  $\sqrt{5}$  $\Box$  d)  $8\sqrt{5} - 15$  $\Box$  c)  $11\sqrt{5}$

22. Subtract 
$$\left(5y^3+6y+3y^4
ight)$$
 from  $\left(4y^4-8y^3
ight)$ .

$$\Box$$
 a)  $y^4 - 13y^3 - 6y$ 
 $\Box$ 
 b)  $y^4 - 13y^3 + 6y$ 
 $\Box$ 
 c)  $9y^4 - 13y^3 - 6y$ 
 $\Box$ 
 d)  $y^4 + 13y^3 - 6y$