TEST NAME: online No 3 Math 8 12-05 TEST ID: 2723647 GRADE: 08 - Eighth Grade SUBJECT: Mathematics TEST CATEGORY: My Classroom



12/05/18, online No 3 Math 8 12-05

Student:	
Class:	
Date:	

1. Which statement regarding the number of solutions for the linear equation shown below is true?

4(3x+8)-9=2(6x-8)+39

- A There are infinitely many solutions.
- B. There are exactly two solutions.
- C. There is exactly one solution.
- D. There is no solution.
- 2. Three times the difference of a number x and seven is twenty-three minus the sum of three times a number x and two. What is the value of x?
 - A. 5
 - B. 7
 - c. no solution
 - D. infinitely many solutions
- ^{3.} What value of x satisfies the equation $\frac{-4x-2}{3} = -6$?
 - ^{A -}16
 - в. ⁻12
 - C. 0
 - D. 4
- ^{4.} What is the solution to the equation 2(2x 5) = 6?
 - A 3
 - В. 4
 - C. 8

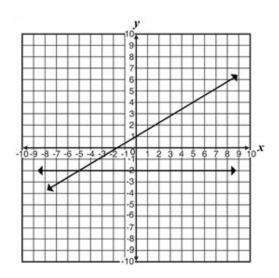


^{5.} What is the solution to the equation $\frac{1}{2}(x+5) = 10$?

- A x = 0
- B. *x* = 10
- C. *x* = 15
- D. *x* = 25
- 6. What is the value of x in the equation 6(x + 5) = 3(x 14)?
 - A -1
 - в. -4
 - c. -6
 - D. ⁻24
- 7. What is the solution to the equation 8 7(4x 2) = -28x + 6?
 - A 6
 - B. 12
 - ^{C.} no solution
 - D. all real numbers

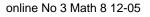


^{8.} The graphs $y = \frac{3}{5}x + 1$ and y = -2 are shown in the coordinate plane below.



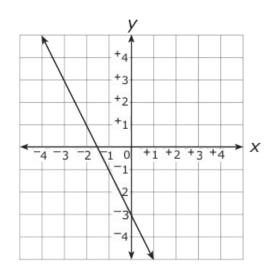
Which coordinate point satisfies both equations?

- A (-5, -2)
- B. (-2, -5)
- C. (-2, -2)
- D. (0, -2)
- ^{9.} Kathy has \$2 less than 3 times the amount of money Jason has. Together, they have \$34. How much money does Kathy have?
 - A \$8
 - в. **\$9**
 - c. \$25
 - D. \$26
- ^{10.} Paula runs a bakery. She estimates that her weekly cost of rent and electricity is \$250. The ingredients to bake one cake cost \$4. Which equation represents the total cost to Paula's bakery per week, y, if x number of cakes are made?
 - A. y = 250x + 4
 - B. y = 4x + 250
 - C. y = 250x 4
 - D. y = 4x 250





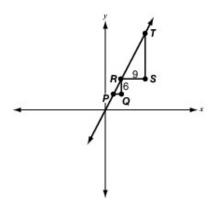
^{11.} Which is an equation of the line graphed below?



A y = 2x - 3B. $y = \frac{1}{2}x - 3$ C. $y = \frac{-1}{2}x - 3$ D. y = -2x - 3



^{12.} On the coordinate plane below, triangle *PQR* is similar to triangle *RST*. The corresponding side lengths of triangle *RST* and triangle *PQR* are in the ratio of 3:1.



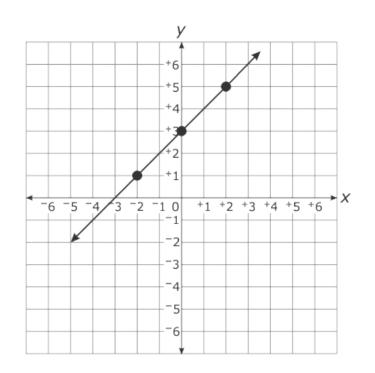
What is the equation of the line containing the points P and T?

A
$$y = \frac{2}{3}x$$

- B. $y = \frac{3}{2}x$
- C. y = 2x
- D. y = 3x



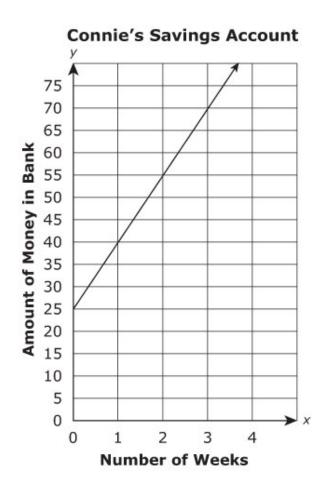
^{13.} Which is an equation of the line graphed below?



- A y = -3x + 3
- B. y = x + 3
- C. y = 3x 3



^{14.} Use the graph below to answer the question.

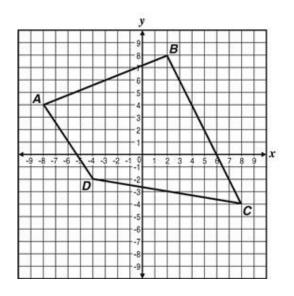


Which statement is true about Connie's savings account?

- A Connie started with \$25 in her savings account and saved \$40 each week.
- ^{B.} Connie started with \$25 in her savings account and saved \$15 each week.
- C. Connie started with \$15 in her savings account and saved \$25 each week.
- D. Connie started with \$0 in her savings account and saved \$25 each week.



15. Quadrilateral *ABCD* is shown on this grid.



If Quadrilateral *ABCD* is dilated about the origin using a scale factor of $\frac{1}{2}$ to make Quadrilateral $A^{'}B^{'}C^{'}D^{'}$, what will be the coordinates of $A^{'}, B^{'}, C^{'}$, and $D^{'}$?

- A. A'(-4, 2), B'(1, 4), C'(4, -2), D'(-2, -1)
- B. A'(-8, 4), B'(2, 8), C'(8, -4), D'(-4, -2)
- C. A (-10, 2), B (0, 6), C (6, -6), D (-6, -4)
- D. A'(-16, 8), B'(4, 16), C'(16, -8), D'(-8, -4)

