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?

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

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 $\frac{-4 x-2}{3}=-6$ ?

A -16
B. -12
C. 0
D. 4
4. What is the solution to equation $2(2 x-5)=6$ ?

A 3
B. 4
C. 8
5. What is the solution to the equation $\frac{1}{2}(x+5)=10$ ?
A. $\quad x=0$
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
B. -4
C. -6
D. -24
7. What is the solution to the equation $8-7(4 x-2)={ }^{-} 28 x+6$ ?

A 6
B. 12
C. no solution
D. all real numbers
8. The graphs $y=\frac{3}{5} x+1$ and $\boldsymbol{y}=\mathbf{- 2}$ 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. $\$ 8$
B. $\$ 9$
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 $y=250 x+4$
B. $y=4 x+250$
C. $y=250 x-4$
D. $y=4 x-250$
11. Which is an equation of the line graphed below?

A. $y=2 x-3$
B. $y=\frac{1}{2} x-3$
c. $y=\frac{-1}{2} x-3$
D. $y=-2 x-3$
12. On the coordinate plane below, triangle $P Q R$ is similar to triangle $R S T$. The corresponding side lengths of triangle RST and triangle $P Q R$ 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. $y=2 x$
D. $y=3 x$
13. Which is an equation of the line graphed below?


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


If Quadrilateral $A B C D$ is dilated about the origin using a scale factor of $\frac{1}{2}$ to make Quadrilateral $A B^{\prime} C^{\prime}$, what will be the coordinates of $A, B, C^{\prime}$, and $D^{\prime}$ ?
A $A^{\prime}(-4,2), B^{\prime}(1,4), C^{\prime}(4,-2), D^{\prime}(-2,-1)$
B. $A^{\prime}(-8,4), B^{\prime}(2,8), C^{\prime}(8,-4), D^{\prime}(-4,-2)$
C. $A^{\prime}(-10,2), B^{\prime}(0,6), C^{\prime}(6,-6), D^{\prime}(-6,-4)$
D. $A(-16,8), B^{\prime}(4,16), C^{\prime}(16,-8), D(-8,-4)$

