

Hall County Grade 9 Assessment 2

MCC9-12.A.REI.6

12. The value of 23 coins is \$2.90. If the coins are made up of only dimes, d , and quarters, q . Write a system of equations that models the situation.

$$\begin{aligned} d + q &= 23 \\ .10d + .25q &= 2.90 \end{aligned}$$

MCC9-12.A.REI.3

13. This equation models the number of minutes, m , it takes Theo and Vanessa to cook pancakes.

$$\frac{m}{16} + \frac{m}{12} = 1$$

$$16 \left(\frac{m}{16} + \frac{m}{12} \right) = 1(16)$$

$$m + \frac{16m}{12} = 16$$

$$12 \left(m + \frac{16m}{12} \right) = 16 \cdot 12$$

$$12m + 16m = 192$$

$$28m = 192$$

$$m = 6.85\dots$$

About how many minutes will it take them to cook the pancakes?

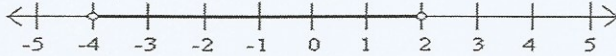
about 7

MCC9-12.A.REI.12

14. Write the inequalities that represent the solution shown on the number line?

$$x > -4$$

$$x < 2$$



OR $-4 < x < 2$

MCC9-12.A.REI.12

15. Sketch a graph that represents a system of linear equations that has no common coordinate pairs.

