RSCS Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Class:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **COMPARING LINEAR FUNCTIONS DAY 2**

**TRY NOW:**

1) The table represents linear function G

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| -3 | 6 |
| -1 | 10 |
| 1 | 14 |
| 3 | 18 |

Function L is when the output is six less than three times the input

Which statement is true?

**a)** Function G has a greater rate of change

**b)** Function L has a greater initial value

**c)** Function L has a greater rate of change

**d)** Function G has a smaller initial value

2) What is the solution, if any, to the following equation

$$\frac{2}{3}\left(9x-12\right)=\frac{1}{2}(12x+8)$$

3)

**I DO:**

Jack and Jill are both running in a 200 meter race. They are both running at a constant speed. Jacks running is represented by the equation **y = 1.75x** and Jill is represented by the table

|  |  |
| --- | --- |
| Seconds | Meters |
| 10 | 15 |
| 13 | 19.5 |
| 15 | 22.5 |
| 18 | 27 |

Based on the results, what is the difference between Jacks total race time and Jills total race time?

1) Jacks total race time

2) Jills total race time

3) difference between the two

4) Jeffrey and Claire are walking. Jeffery’s distance walked over time is represented by the graph. Claire walked 140 meters in 2 minutes. What is the difference between Jeffrey and Claire’s rate of change?



**CFU-**











\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has a greater rate of change because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What do the initial values represent in terms of the context of the problem?

What do the rates of change represent in terms of the context of the problem?





















