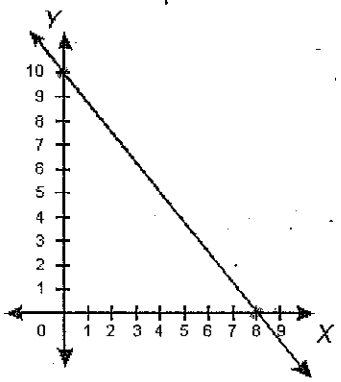
8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.

What is the slope of the line shown below?



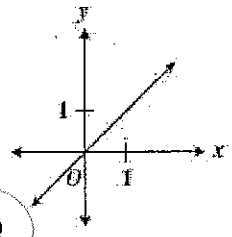
$\frac{-10}{8} = \frac{5}{4}$

A) $-\frac{5}{4}$ C) $\frac{4}{5}$

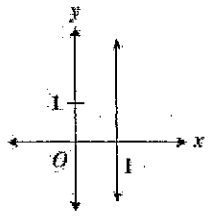
B) $-\frac{4}{5}$ D) $\frac{5}{4}$

Which of the following is a graph with a slope of 1?

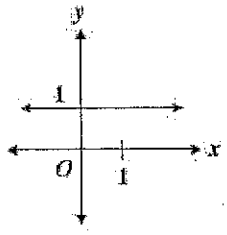
A)



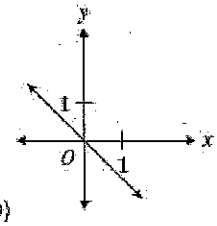
C)



B)



D)



The slope of the line through points (1, 1) and (1, 2) is:

A) Zero C) Positive

B) Negative D) Undefined

X	Y
1	1
1	2

$+2 > +1$

$\frac{1}{0}$

Which of these sets of ordered pairs would define a line with a negative slope?

A) (5, 5) (0, 1) $\frac{5}{0}\ \frac{5}{1}$ C) (3, 6) (5, 1) $\frac{3}{5}\ \frac{6}{1}$

B) (2 ,3) (-4, -1) $\frac{2}{-4}\ \frac{3}{-1}$ D) (2, 3) (7, 6) $\frac{2}{7}\ \frac{3}{6}$

The graph represents the wages a call center pays its entry-level employees, where y is the total wages paid per hour for x employees.

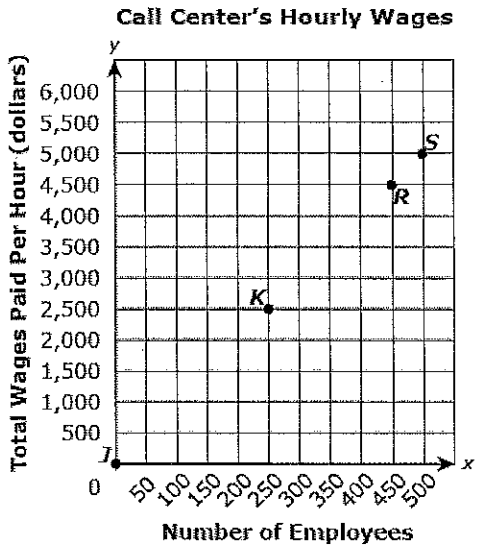
Part A: Calculate the unit rate from point J to point K, the unit rate from point K to point R, and the unit rate from point R to point S. Show your work. What conclusion can be made about points J, K, R, and S?

$\frac{2,500}{250} = \frac{10}{1}$ $\frac{2000}{200} = \frac{10}{1}$ $\frac{\$}{\text{person}}$

They are linear

Part B: A grocery store is filling entry-level management positions. The store pays $13.25 per hour for each employee. Write an equation representing this situation.

$y = 13.25x$



Part C: A job seeker inquires about the hourly wages paid at the call center and at the grocery store. She decides to apply for the job that pays more per hour. For which job should the job seeker apply? Explain your answer.

grocery store 13.25 per hour while call center pays $10 per hour