

Simplify these complex fractions without using a calculator. Do not convert to decimals.

1) $\frac{4\frac{1}{2}}{\frac{3}{5}}$

2) $\frac{12}{1\frac{1}{8}}$

Write these percents as simplified ratios using the concept of complex fractions.

3) $3\frac{1}{5}\%$

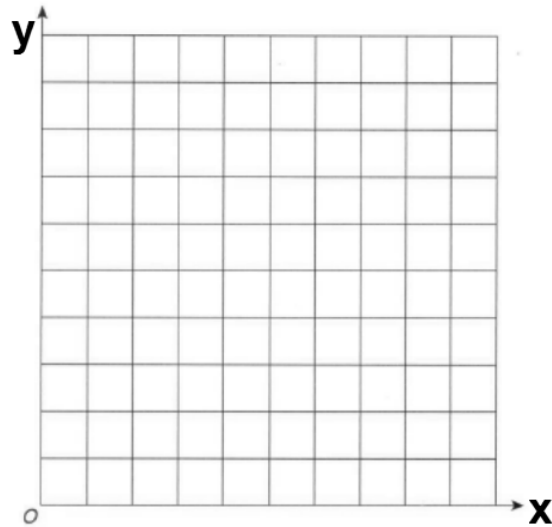
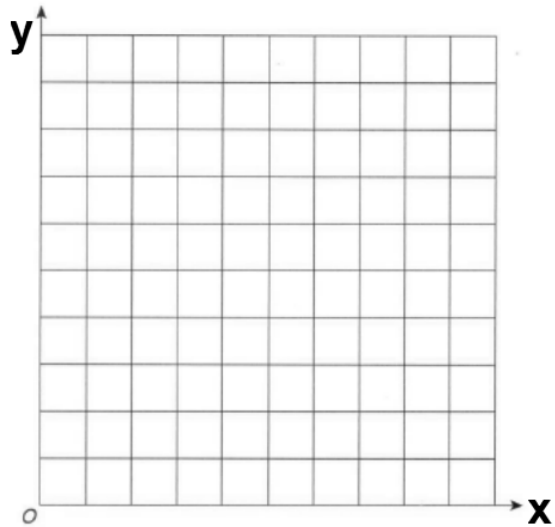
4) $12\frac{1}{2}\%$

Find the slope of the line that goes through the two given points.

5) (4, 6) and (2, 5)

6) (0,2) and (3,5)

7) Graph the points on the grids below and tell whether the line through the points represents a proportional relationship.



8) Meg walks at a rate of 8 feet per second. How many yards per minute is this?

9) For every left-handed person, there are about 4 right-handed people. If there are 60 people in chorus, how many would you expect to be right-handed? Write a word ratio, a proportion, and solve the proportion.

10) An amusement park line for passengers waiting to ride a rollercoaster is moving about 15 feet every 10 minutes. If Jason is standing 50 feet from the front of the line, how long will it be before he is at the front of the line?

Use the graph to help answer these questions.

11) Is the distance Tina travels proportional to the the time it takes? Why or why not?

12) True or False ? The distance Jan travels varies directly with the number of hours. Explain your reasoning.

13) Find the slope of Jan's line.

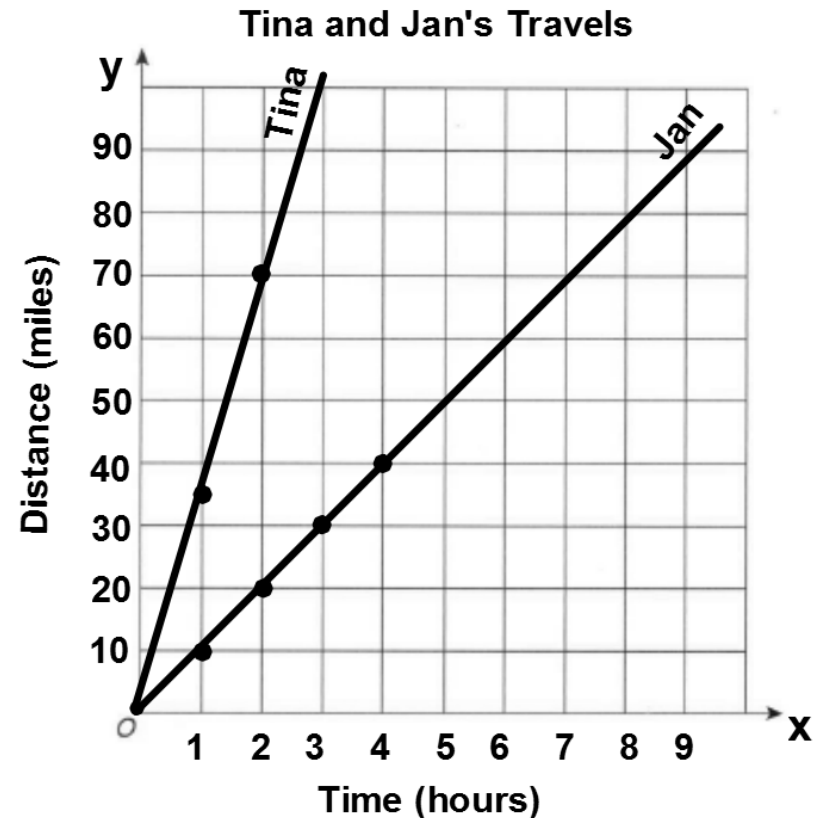
14) Explain the meaning of the slope of Jan's line.

15) Write the equation of Jan's line.

16) Find the constant of proportionality (k) for Tina's line

17) Write the equation of Tina's line.

18) Explain the meaning of the point (2,70).



Use the graph to help answer these questions.

19) Is the number of dollars Tim earns proportional to the the number of lawns he mows? Why or why not?

20) True or False ? The number of dollars Fred earns varies directly with the number of lawns he mows. Explain your reasoning.

21) Find the slope of Fred's line.

22) Explain the meaning of the slope of Fred's line.

23) Write the equation of Fred's line.

24) Find the slope (k) for Tim's line

****25) (Challenge Problem) Write the equation of Tim's line.**

26) Explain the meaning of the point (3,15) on Fred's line.

