

Graphing Ratios and Proportions Class Practice

Name \_\_\_\_\_

**\* Enter numerical answers ONLY**

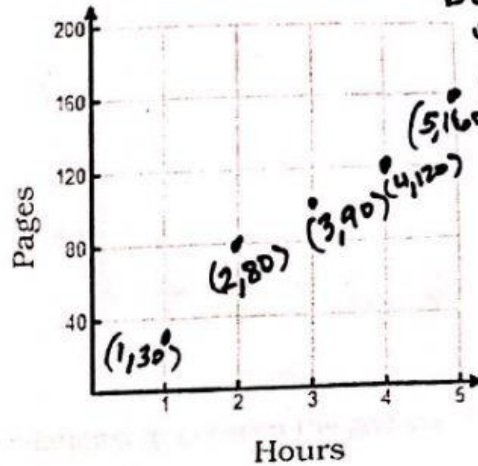
1. Emanuel read 150 pages in 5 hours.

a. Find his average reading rate.  
(unit ratio)

b. Complete the table of equivalent ratios assuming the rate remains constant.

Hours	Pages
1	
2	
3	
4	
5	150

c. Graph the data



Write Y or N if point belongs on the graph.

d. Fill in the algebraic equation that represents the relationship between the hours  $h$  and the number of pages  $p$ .

$$p = \boxed{\phantom{00}} \times h$$

Answer the following questions assuming the rate remains constant. (Hint... use proportions)

a. How many hours would it take Emanuel to read 210 pages?

b. How many pages can he read in  $4\frac{1}{2}$  hours?

c. How long will it take him to read 230 pages?

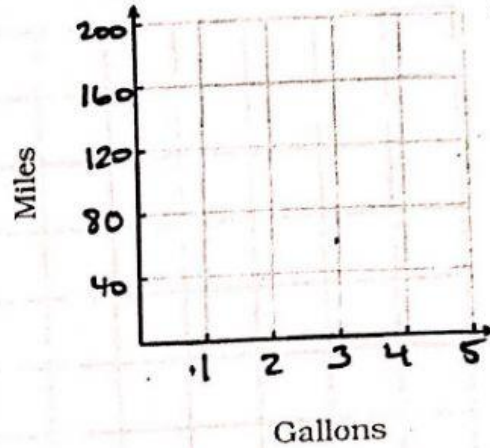
2. A car drove 148 miles using 4 gallons of gasoline.

a. Find the unit rate in miles per gallon.

b. Complete the table of equivalent ratios assuming the rate remains constant.

Gallons	Miles
1	
	74
3	
	148
5	

c. Graph the data - *Draw on paper in notebook.*



d. *Fill in* the algebraic equation that represents the relationship between the gallons  $g$  and the number of miles  $m$ .

$$m = \square \times g$$

Answer the following questions assuming the rate remains constant. (*Hint... Use proportions*)

a. How many miles would you travel on 9 gallons?

b. How many gallons will it take to drive  $9\frac{1}{4}$  miles?