

Name: \_\_\_\_\_

HW # 20

1.) Solve for x using cross-products.

$$\frac{4}{15} = \frac{x}{45}$$

$$15x = 180$$

$$x = 12$$

2.) Solve for x using cross-products.

$$\frac{1}{2} = \frac{x}{3}$$

$$\frac{5}{4} \cdot \frac{4}{5} x = \frac{3}{8} \cdot \frac{5}{4}$$

$$x = \frac{15}{32}$$

use the **A b/c** button!

3.) The table below shows how many miles a plane travels over the course of four minutes.

Number of Miles Traveled	4	8	12	16
Minutes	1	2	3	4

$$\frac{4}{1} = \frac{8}{2} = \frac{12}{3} = \frac{16}{4}$$

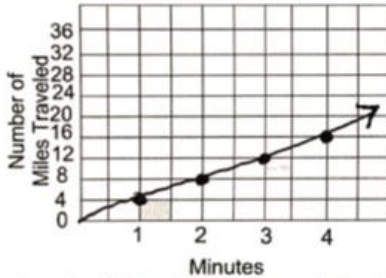
a.) Is the table proportional

YES

b.) What is the constant of proportionality?

4

c.) Graph the table.



d.) What does the point (3, 12) represent in the table?

min → miles  
12 miles traveled takes 3 min.

e.) What does the point (0,0) represent in the table?

0 miles traveled takes 0 minutes.

4.) In each table/graph below, show whether the relationship is proportional. If yes, identify the constant of proportionality.

Example 1:

mi	15	30	45
h	1	2	3

$$\frac{15}{1} = \frac{30}{2} = \frac{45}{3}$$

c.p. = 15 YES

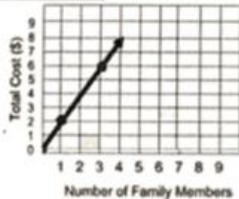
Example 3:

words	64	114	240
min	1	2	3

$$\frac{64}{1} \neq \frac{114}{2} \neq \frac{240}{3}$$

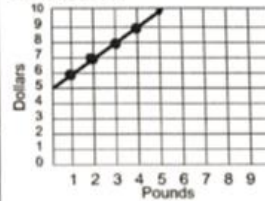
No

Example 2:



(1, 2)  
YES c.p. = 2  
- Straight line  
- through (0,0)

Example 4:



No