1.3 Proportional Graphs

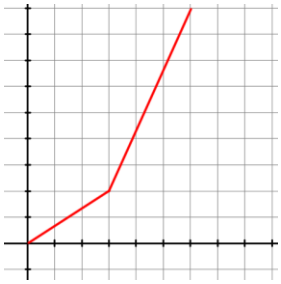
NAME:_____

Corrective Assignment

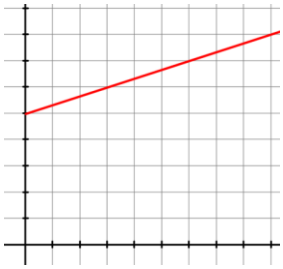
DATE:_____

In each graph, determine if *y* is proportional to *x*. Explain why or why not.

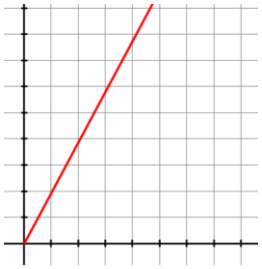
1.



2.

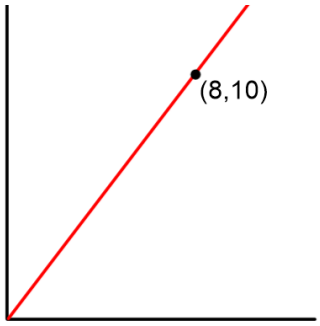


3.



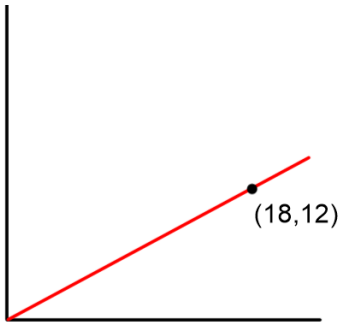
Find the constant of proportionality (unit rate). Express as fraction in simplest form or decimal.

4.



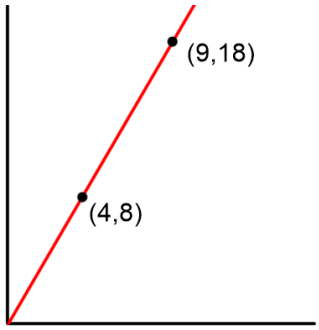
k = _____

5.



k = _____

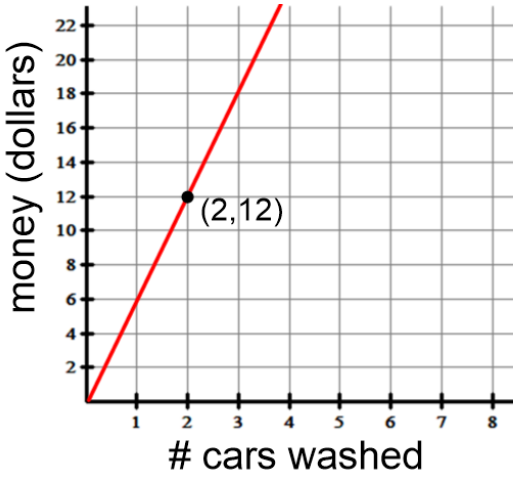
6.



k = _____

Fill in the tables below. Use the graph to answer the questions.

7. Mr. Brust makes money washing cars during the summer.



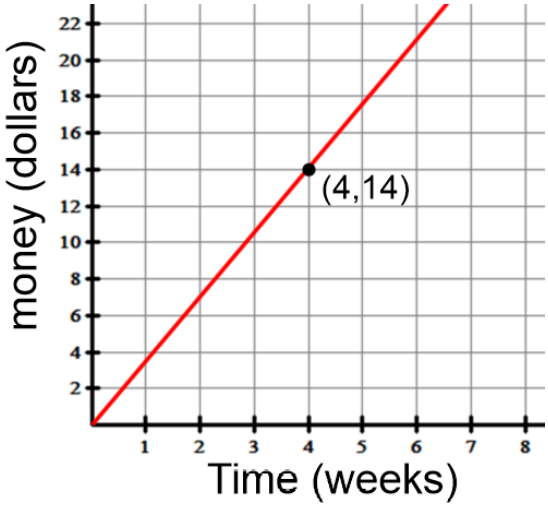
a. Find the constant of proportionality. *k* = _____

b. Use a sentence to explain what the constant of proportionality means in this situation.

c. Explain what the point $(2, 12)$ means in this situation.

Use the graph to answer the questions.

8. Mr. Kelly gives his kids an allowance.



a. Find the constant of proportionality. k = _____

b. Use a sentence to explain what the constant of proportionality means in this situation.

c. Explain what the point $(4, 14)$ means in this situation.

ANSWERS TO 1.3 CORRECTIVE ASSIGNMENT

1. NO Not a straight line	2. NO Does not go through the origin	3. YES Straight line through the origin
4. $k = \frac{5}{4}$ or 1.25	5. $k = \frac{5}{4}$ or 1.25	6. $k = \frac{5}{4}$ or 1.25
7. a. $k = \frac{5}{4}$ or 1.25 b. \$6 per car washed c. Wash 2 cars for \$12	8. a. $k = \frac{7}{2}$ or 3.5 b. \$3.50 per weeks c. 4 weeks of allowance is \$14	