Unit: Proportional Relationships
Homework 1

Name _____

Date _____ Pd_____

CONSTANT OF PROPORTIONALITY

Determine the constant of proportionality from each representation below.

1.

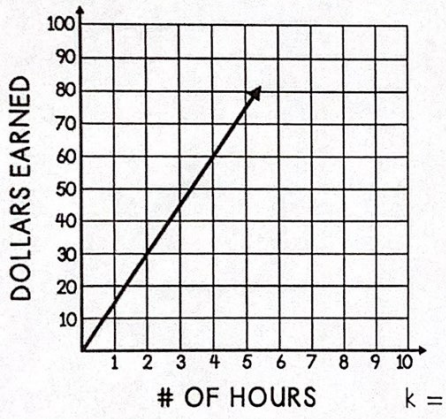
x	8	12	16	20	24
y	2	3	4	5	6

k = _____

2. There are 108 feet in 36 yards. What is the constant of proportionality that relates y, the number of yards to x, the number of feet?

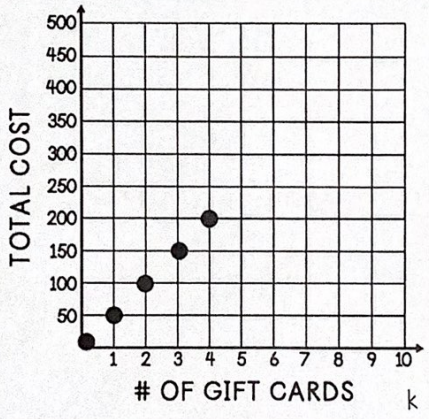
k = _____

3.



k = _____

4.



k = _____

Use the situation below to complete the table and answer the questions.

A gym employee earns the same amount each month. After working for three months, he earned $4,500. Complete the table to determine how much money he will make over a five-month period.

MONTH	TOTAL EARNINGS	$\frac{y}{x}$
1		
2		
3	$4,500	
4		
5		

5. Is the relationship proportional? Explain your thinking.

6. What is the constant of proportionality?

7. Write an equation to represent the situation.

8. If his pay rate remains the same, how much will he earn after working 7 months?

9. After how many months will the gym employee earn $15,000?