

Name: _____ Date: _____ Class: _____

Practice on Constant of Proportionality

Directions: Show your work for all problems. For each problem, decide if it's a proportional relationship. If it is, find the constant of proportionality and use it to write an equation.

#1

Number of cookies	Cost (\$)
2	1
3	1.50
4	2
5	2.5

Using your equation, find out the cost of 20 cookies. _____

**Use your equation to find out how many cookies you could buy for \$22. _____

#2

Time (hours)	Distance traveled (miles)
1	20
2	40
3	60
4	80

Using your equation, find out the distance traveled in 12 hours. _____

**Use your equation to find out how long it would take to travel 1000 miles. _____

#3

The Apple factory produced 20 iphones in 4 minutes and 55 iphones in 11 minutes. Find the CoP and write the equation for this verbal description.

Using your equation, find out how many iphones they can produce in an hour. _____

**Use your equation to find out how long it would take to produce 100 iphones. _____

#4

Number of cookies	Cost (\$)
4	12
5	15
6	18
7	21

Using your equation, find out the cost of 20 cookies. _____

**Use your equation to find out how many cookies you could buy for \$30. _____

#5

Time (hours)	Distance traveled (miles)
2	50
3	75
4	100
5	125

Using your equation, find out the distance traveled in 10 hours. _____

**Use your equation to find out how long it would take to travel 250 miles. _____

#6

The Apple factory produced 56 iphones in 8 minutes and 70 iphones in 10 minutes. Find the CoP and write the equation for this verbal description.

Using your equation, find out how many iphones they can produce in an hour. _____

**Use your equation to find out how long it would take to produce 14 iphones. _____