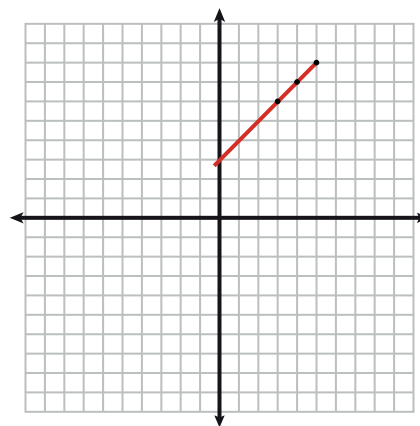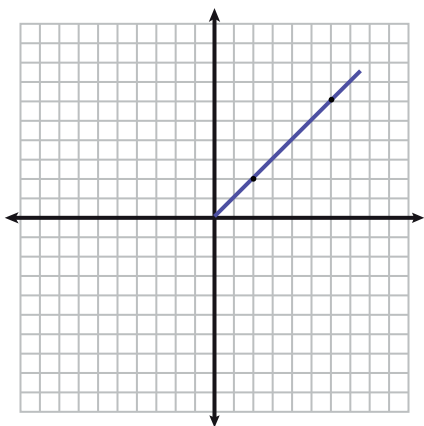# Constant of Proportionality Guided Notes

1. How are these similar? Different?



2. Let's look more closely . . .

| x (Trees Killed) | y (Packs of Cigarettes) | Rate of Change |
|---|---|---|
| 1 | 15 | |
| 2 | 30 | |
| 3 | 45 | |
| 5 | | |
| 10 | | |

**3.** _____ means the same. What stayed _____ in the table?

**4.** For proportional relationships, Rate of Change is the same as _____.

**5.** Complete the table.

| Equation | $y = 2200x$ | $y = 15x$ |
|---|---|---|
| Rate of Change | | |
| Constant of Proportionality | | |

**6.** Proportional means _____.

**7.** Since the _____ is the same as _____ the equation for $k =$ _____.

## Summary of Learning

For proportional relationships, the **Rate of Change** is the ratio of ___ to ___. **Constant** means the ____. When the relationship is proportional, the term **Constant of Proportionality** is the same as ____ of Change. Constant of _____ is represented by the letter __. $k = y/x$ is an equation that stands for how a _____ graph changes. In the example of 1 tree killed for 15 packs of cigarettes, we could write the equation: _____.