## Constant of Proportionality:

## TABLES, GRAPHS, AND EQUATIONS

In a proportional relationship, the constant of proportionality, also known as the unit rate, is the ratio of $y$ to $x$. It can be represented by the variable $k$.

## Directions:

Determine the constant of proportionality for each proportional relationship below. Write your answer on the line.

$\qquad$
$\qquad$

## Constant of Proportionality:

 TABLES, GRAPHS, AND EQUATIONSKeep going!

Determine the constant of proportionality for each proportional relationship below. Write your answer on the line, and simplify any fractions.
6. This equation shows the proportional relationship between the cups of water, $x$, and the cups of flour, $y$, that Clara combined to make bread dough.

$$
y=\frac{5}{3} x
$$

7. This table shows the proportional relationship between the number of juice bottles purchased, $x$, and the total cost of the purchase, $y$.

| $\boldsymbol{x}$ | 3 | 9 | 21 | 24 |
| :---: | :---: | :---: | :---: | :---: |
| $\boldsymbol{y}$ | $\$ 5.25$ | $\$ 15.75$ | $\$ 36.75$ | $\$ 42$ |

$$
k=
$$

$\qquad$
9. This equation shows the proportional relationship between the distance (in miles) Tracy rides her motorcycle, $x$, and the amount of gas (in gallons) she uses, $y$.

$$
y=36.5 x
$$

$k=$ $\qquad$
10. This graph shows the proportional relationship between the number of cans of white paint, $x$, and the number of cans of red paint, $y$, Samir mixed together to create pink paint.

Cans of white paint

