

**Display Master: Key Ideas: Unit Rates**

- A unit rate describes how many units of 1 quantity for 1 unit of another quantity.
- A missing value of a proportion can be found by finding the unit rate of the complete ratio and then multiplying the fraction representing the unit rate by a scale factor.

## Display Master: Potato Salad A

The recipe for potato salad Lucy is making asks for 6 potatoes for 2 boiled eggs. Lucy has 5 boiled eggs that she wants to use in her potato salad for a party. How many potatoes does she need for 5 boiled eggs?

$$\frac{6 \text{ potatoes}}{2 \text{ boiled eggs}} = \frac{x \text{ potatoes}}{5 \text{ boiled eggs}}$$

## Display Master: Potato Salad B

Units	Ratio 1	Unit rate	Ratio 2
<div>Potatoes</div> <hr/> <div>Boiled eggs</div>	<div>6</div> <hr/> <div>2</div>	= <hr/> = <hr/>	<hr/>

What is the greatest common factor of 6 and 2?

## Display Master: Potato Salad C

Units	Ratio 1	Unit rate	Ratio 2
<div>Potatoes</div> <hr/> <div>Boiled eggs</div>	$\frac{6 \div 2}{2 \div 2}$	$= \frac{3}{1}$	$= \underline{\hspace{2cm}}$

**Display Master: Potato Salad D**

Units	Ratio 1	Unit rate	Ratio 2
<div>Potatoes</div> <hr/> <div>Boiled eggs</div>	$\frac{6}{2}$	$= \frac{3}{1}$	$= \frac{x}{5}$

Times what?

## Display Master: Potato Salad E

Units	Ratio 1	Unit rate	Ratio 2
$\frac{\text{Potatoes}}{\text{Boiled eggs}}$	$\frac{6}{2} = \frac{3 \times 5}{1 \times 5} = \frac{x}{5}$		

## Display Master: Potato Salad F

Units	Ratio 1	Unit rate	Ratio 2
$\frac{\text{Potatoes}}{\text{Boiled eggs}}$	$\frac{6}{2} = \frac{3}{1} = \frac{15}{5}$		

## Display Master: Transportation A

Every day at Mason Elementary, 8 students ride the bus home for every 2 students who walk home. At this rate, how many students would ride the bus if 9 students walked?

$$\frac{8 \text{ bus riders}}{2 \text{ walkers}} = \frac{x \text{ bus riders}}{9 \text{ walkers}}$$



## Display Master: Transportation B

Units	Ratio 1	Unit rate	Ratio 2
$\frac{\text{Bus riders}}{\text{Walkers}}$	$\frac{8 \div 2}{2 \div 2}$	$= \frac{4}{1}$	$= \underline{\hspace{2cm}}$

**Display Master: Transportation C**

Units	Ratio 1	Unit rate	Ratio 2
$\frac{\text{Bus riders}}{\text{Walkers}}$	$\frac{8}{2}$	$= \frac{4}{1}$	$= \frac{x}{9}$

Times what?

**Display Master: Transportation D**

Units	Ratio 1	Unit rate	Ratio 2
$\frac{\text{Bus riders}}{\text{Walkers}}$	$\frac{8}{2}$	$= \frac{4 \times 9}{1 \times 9}$	$= \frac{x}{9}$

## Display Master: Transportation E

Units	Ratio 1	Unit rate	Ratio 2
$\frac{\text{Bus riders}}{\text{Walkers}}$	$\frac{8}{2}$	$= \frac{4}{1}$	$= \frac{36}{9}$