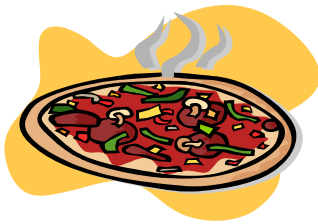


The Constant of Proportionality

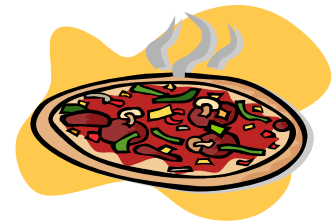
Constant - A quantity that has a fixed value (number) that does not change

Constant of Proportionality - A constant value of the ratio of two proportional quantities

A group has \$200 to spend on a pizza party but doesn't know how many pizzas they can buy. The pizza parlor supplies them with this chart but it does not go high enough.



# of	Total	
4	\$32	$\frac{32}{4}$
9	\$72	$\frac{72}{9}$
12	\$96	$\frac{96}{12}$



The group finds the constant:

The Constant is always \$8

$$\$32 \div 4 = \$8$$

$$\$72 \div 9 = \$8$$

$$\$96 \div 12 = \$8$$

Each pizza costs \$8. They could buy 25 pizzas for \$200.

Even though the amount of pizzas and total cost changed, the price per pizza price stayed constant.