

# Pizza Puzzle

## Problem

Giordano's Pizza Shop is famous for its spectacular Giordano's Giant, a large gourmet pizza that's big enough to feed 16 people! There is a base charge for the plain pizza, and then an additional charge per topping ordered from the list of 20 possible items. All the toppings are priced equally.

A Giordano's Giant pizza ordered with  $\frac{2}{5}$  of the possible toppings will cost \$46.50. One with 30% of the possible toppings will cost \$41.80. Using that information, answer the following questions:

1. Find an equation that expresses the total cost of a Giordano's Giant pizza in terms of the number of toppings ordered.
2. How much would a Giant pizza with all the possible toppings cost?
3. If a customer ordered a Giant pizza that cost \$55.90, what percent of the toppings did she order?

