

## Cinco de Mayo

**High School: Did you know?** Cindo de Mayo is to celebrate a major victory in Mexico's history? Against a much larger force, Mexico claimed victory over France, and President Juárez declared May 5 a national holiday – leading to the first celebration of Cinco de Mayo. Today in the U.S. people celebrate with family and friends while eating Mexican food.

Isabel and Maria and making and selling home-made guacamole and pico de gallo. Table 1 provides a breakdown of the cost and selling price for each.

Table 1: Home-made Pico and Guac

Item	Cost to make/buy	Selling Price with a side of chips
Guacamole	\$1.80 per ounce	\$3.00 for 0.5 ounces of guac
Pico de Gallo	\$1.15 per ounce	\$2.50 for 0.5 ounces of pico
Chips	\$2.50 per pound, 16 servings in a 1-pound bag	

1. Maria just received an order for 15 servings of guacamole and 12 servings of pico de gallo. What is the total profit (revenue – expenses) for this order? Justify your answer.

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2. Isabel wants to represent their profits with equations. She claims the equation  $y = 1.76x$  can represent the profits ( $y$ ) for ( $x$ ) number of servings of pico de gallo. Do you agree or disagree with Isabel's claim? Justify your answer.

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3. Which dish earns more money per serving? Justify your answer.

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