

EFFECTS OF TOBACCO

Math Worksheet #1

ANSWER KEY

The Expense of Tobacco

1. A carton of cigarettes cost \$45.00 there are 10 packs in a carton. How much does one pack cost?

$$\mathbf{\$45.00}$$
 (cost of carton) / $\mathbf{10}$ (packs per carton) =

\$4.50 each

2. Joe was complaining to Sue that he wanted to buy a double music CD, which cost \$27, but he didn't have any money. Sue noticed that Joe smoked 2 packs of cigarettes a week. She suggested that he stop smoking and save the money that he spent on the cigarettes to buy the CD. If Joe takes Sue's suggestion how many weeks would it take him to save enough money to get the CD?

$$\mathbf{\$4.50}$$
 (price per pack) x $\mathbf{2}$ (number of packs smoked per week) = $\mathbf{\$9.00}$ per week

$$\mathbf{\$27.00}$$
 (cost of CD) / $\mathbf{\$9.00}$ (cost of smoking per week) = $\mathbf{3}$

3 weeks

3. Rafael smokes five packs of cigarettes a week. If he quit smoking and saved the money that he usually spends on cigarettes how much would he save in a year?

$$\mathbf{5}$$
 (packs smoked per week) x $\mathbf{\$4.50}$ (price per pack) = $\mathbf{\$22.50}$ per week

$$\mathbf{\$22.50}$$
 (cost to smoke per week) x $\mathbf{52}$ (number of weeks in a year) =

\$1,170.00

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Math Worksheet #2

ANSWER KEY

The Expense of Tobacco

Ashanti was smoking a pack of cigarettes a day. A pack of cigarettes costs \$4.50. Ashanti asked her mom for some money to buy some colored contact lenses. Her mom said, "Why don't you stop smoking and save your money. Then you could buy yourself an extra pair of colored contacts."

1. If she stopped smoking for the month of January how much money would Ashanti save?

$$\mathbf{\$4.50} \text{ (per pack price)} \times \mathbf{31} \text{ (days in January)} =$$

$$\mathbf{\$139.50}$$

2. If Ashanti stopped smoking for January, February, and March how much money would she save? (It was not a leap year).

$$\mathbf{31} \text{ (days in January)} + \mathbf{28} \text{ (days in February)} + \mathbf{31} \text{ (days in March)} = \mathbf{90 \text{ days}}$$

$$\mathbf{\$4.50} \text{ (per pack price)} \times \mathbf{90} \text{ (days in Jan, Feb, March)} =$$

$$\mathbf{\$405.00}$$

3. How much would she have saved in a year?

$$\mathbf{365} \text{ (days in a year)} \times \mathbf{\$4.50} \text{ (price per pack)}$$

$$\mathbf{\$1642.50}$$