

**Area**—Consumer and Family Resources

**Scenario**—Dining Out **Key**

**Standards**

SD FACS Standards

FCS 7.3.2

Apply management principles to individual and family financial practices.

SD Mathematics Standards

Math 9-12.A.2.1

Students are able to use algebraic properties to transform multi-step, single variable, and first-degree equations.

**What will you do?**

You will react to the given scenario about dining out vs. eating at home.

**What is the scenario?**

The Smith Family of four dines out at sit-down restaurants for breakfast, lunch, and dinner every day for a year and spends a total of \$29,930. If the average lunch price is \$20 and dinner is 2.5 times as much as breakfast, compute the average price of breakfast and dinner. (Round your numbers to the nearest hundredths.)

$$\text{\$29,930} / 365 \text{ days per year} = \text{\$82.00 per day}$$

$$\begin{array}{ccccccc} X & + & 20 & + & 2.5X & = & \text{\$82.00} & \longrightarrow & X + 2.5X = 82 - 20 \\ \text{(breakfast)} & & \text{(lunch)} & & \text{(dinner)} & & & & 3.5X = 62 \\ & & & & & & & & X = 62 / 3.5 \end{array}$$

Breakfast = \$17.71

Dinner = \$44.28

How much would the Smith Family save if they chose to eat breakfast at home 1/3 of the time this next year?

$$\text{\$17.71} \times 365 \times .333 = \text{\$2,152.56}$$

OR  $\text{\$17.71} (365 \times 1/3) = \text{\$2,152.56}$

USDA figures show that a family of four on a liberal plan can eat at home for around \$200.00 a week. Their total yearly cost would be  $200 \times 52 = \text{\$10,400}$ .

Write a paragraph giving your thoughts and reasons on dining out vs. eating at home. **Answers will vary.**