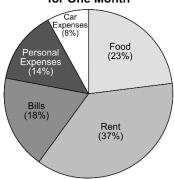
Unit 4: Circles and Area

Name: \_\_\_\_\_

## **4.6 Interpreting Circle Graphs**

1. The circle graph shows Samson's household budget for a month.

Samson's Household Budget for One Month

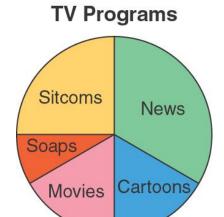


a) Samson takes home \$2500 per month. How much does he budget for each item?

Household Items	Percentage	Fraction	Decimal	Amount of Money Spent on Each Item
Food	23%	100 33	0.23	$0.23 \times 2500 = 575$
Rent	37%	<u>37</u> 100	0.37	0.37 x 2500 = 925
Bills	18%	100 18	0.18	0.18×2500 = 450
Personal Expenses	14%	14 100	0.14	0.14 x 2500 = 350
Car Expenses	8%	100	0.08	0.08 × 2500 = 200

b) Samson gets a raise of \$500 per month. How will this affect his **food** budget?

**2.** This circle graph shows how much time is spent in one day watching different types of TV programs.



- a) Which type of program is watched for the  $\underline{\mathsf{greatest}}$  amount of time?  $\mathsf{News}$
- **b)** Which two types of programs are watched for approximately the **<u>same</u>** amount of time?

Movies and Cartoons

c) Estimate the fraction of time spent watching sitcoms.



d) Suppose TV is watched for 1000 days.

Estimate how much time is spent watching sitcoms.