

Applied Math MA39

16. Sam Wilson has a take-home income of \$14,845. His family budget allowances for the year are:

| | | |
|--------------|----------------|--------------------------------|
| Housing: 25% | Operating: 22% | Clothing: 8% |
| Medical: 6% | Food: 28% | Savings: the remaining percent |

a. What percent of the yearly income will the Wilson family save? _____

b. Find the amount of income budgeted for each item:

| | | | |
|----------|----------|-----------|----------|
| Housing | \$ _____ | Medical | \$ _____ |
| Savings | \$ _____ | Food | \$ _____ |
| Clothing | \$ _____ | Operating | \$ _____ |

17. Mrs. Wilson bought 28 in. of ribbon at \$8.65 a yard from the Sewing Emporium.

a. What fraction of a yard did she buy? _____

b. How much did she pay? _____

18. While shopping at her local grocery store, Mrs. Wilson bought the following items:

8 apples at \$2.25 per dozen
 10 oz. of bacon at \$1.79 per pound
 14 oz. of chicken at \$2.19 per pound
 12 oz. of stew beef at \$4.15 per pound

How much did she spend? _____

In 19-20, Mr. Wilson is planning to make the following installment-plan purchases at Palm Valley SuperMart. Find the **total installment-plan price** and the **carrying charges** for each purchase.

| | Item | List Price | Down Payment | Number of Monthly Payments | Amount of Each Monthly Payment | Total Installment-Plan Price | Carrying Charges |
|-----|-----------|------------|--------------|----------------------------|--------------------------------|------------------------------|------------------|
| 19. | stereo | \$324.80 | \$50.00 | 12 | \$26.40 | \$ _____ | \$ _____ |
| 20. | generator | \$1250.00 | \$375.00 | 24 | \$43.50 | \$ _____ | \$ _____ |