

Shank_Senior_Consumer Math 202_Period 1_Off-site Learning Packet Day 8

Exercise C Following are summaries of a family's gas, electric, and telephone bills for one year. Find the total expenses for these utilities for each month.

Month	Gas	Electricity	Telephone
1) January	\$60.32	\$31.44	\$18.90
2) February	\$135.73	\$30.95	\$18.65
3) March	\$113.39	\$33.23	\$23.89
4) April	\$71.72	\$31.69	\$30.18
5) May	\$48.12	\$31.05	\$26.85
6) June	\$24.67	\$38.57	\$19.05
7) July	\$17.05	\$55.74	\$24.69
8) August	\$14.68	\$102.83	\$27.36
9) September	\$14.61	\$84.93	\$27.09
10) October	\$18.31	\$35.45	\$29.00
11) November	\$65.03	\$21.61	\$40.99
12) December	\$93.27	\$21.97	\$28.36

Exercise D Answer the following questions. Use the information given in Exercise C to help you.

1) How much more did the family spend for gas in February than in March?

2) How much more did the family spend for electricity in August than in December?

3) How much more did the family spend for the telephone in November than in February?

4) Did the family use the same amount of gas each month? Why or why not?

5) What could account for the different charges for electricity in various months?

With an Equal Monthly Payment plan, the customer pays the same amount each month for a utility. This amount is the average of the payments from the previous year.

6) What is the family's average gas payment?

7) What is the family's average electricity payment?

8) What is the family's average telephone payment?

Long distance companies give discounts for calls made outside business hours.

EXAMPLE

The Long Distance Telephone Company offers a 35% discount on evening calls (5 P.M. to 11 P.M.). For late night calls (11 P.M. to 8 A.M.) and weekend calls, it gives a 60% discount.

Toshika makes a call at 8 P.M. that would have cost \$5.25 during business hours. How much does she save by calling during the evening?

\$ 5.25	Cost of call	\$ 5.25	Cost of call
×	.35 Discount	– 1.84	Savings
<hr/>		<hr/>	
\$1.8375	Savings	\$ 3.41	Discounted cost

Toshika saves \$1.84 by calling during the evening. Her call costs \$3.41.

PROBLEM SOLVING

Exercise E Answer these questions based on the example shown above.

- | | |
|---|---|
| <p>1) Antonio makes a call on Saturday that would have cost \$6.00 during business hours. How much does he save?</p> <p>2) How much does Antonio's call cost?</p> <p>3) Pam calls her sister at 10 P.M. Friday. If the call costs \$8.36 during business hours, how much does this call cost?</p> | <p>4) Pam calls her sister again at 10 P.M. on Saturday. If the call costs \$8.36 during business hours, how much does this call cost?</p> <p>5) How much does Pam save on these two calls?</p> |
|---|---|