Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Installment Loans

Numeric Response

1. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

   Amount Financed = Cash Price - Down Payment

   $$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

   Total Amount Repaid = Number of Payments x Monthly Payment

   Finance Charge = Total Amount Repaid - Amount Financed

   Veronica Escalante wants to remodel the dining room in her house. The estimated cost for the job is $2,793.04. If Veronica pays 11 percent of the cost up front, how much will be financed? Express your answer as a dollar amount to the nearest cent.

2. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

   Amount Financed = Cash Price - Down Payment

   $$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

   Total Amount Repaid = Number of Payments x Monthly Payment

   Finance Charge = Total Amount Repaid - Amount Financed

   Catalina Christian wants to remodel the bed room in her house. The estimated cost for the job is $1,813.37. If Catalina pays 17 percent of the cost up front, how much will be financed? Express your answer as a dollar amount to the nearest cent.

3. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

Amount Financed = Cash Price - Down Payment

$$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

Total Amount Repaid = Number of Payments x Monthly Payment

Finance Charge = Total Amount Repaid - Amount Financed

Monthly Payment on a $100 Loan				
Term in	Annual Percentage Rate			
Months	6.7%	7.6%	8.4%	9.3%
6	$16.99	$17.04	$17.08	$17.12
12	8.64	8.68	8.72	8.76
18	5.85	5.90	5.93	5.97
24	4.46	4.50	4.54	4.58
30	3.63	3.67	3.71	3.75
36	3.07	3.12	3.15	3.19
42	2.68	2.72	2.76	2.80
48	2.38	2.42	2.46	2.50

Steve Galentino obtained a loan from Jiffy-Loan for $3,274.23 to buy a boat. Steve has chosen to pay back the loan in 18 payments and the interest rate will be 7.6%. How much will he pay each month? Express your answer as a dollar amount to the nearest cent.

4. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

Amount Financed = Cash Price - Down Payment

$$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

Total Amount Repaid = Number of Payments x Monthly Payment

Finance Charge = Total Amount Repaid - Amount Financed

Monthly Payment on a $100 Loan				
Term in	Annual Percentage Rate			
Months	7.6%	8.4%	9.3%	10%
30	$3.67	$3.71	$3.75	$3.78
36	3.12	3.15	3.19	3.23
42	2.72	2.76	2.80	2.83
48	2.42	2.46	2.50	2.54
54	2.19	2.23	2.27	2.31
60	2.01	2.05	2.09	2.12
66	1.86	1.90	1.94	1.98
72	1.73	1.77	1.82	1.85

Deavin Norton obtained a student loan from Thrifty-Loan for $6,997.07. Deavin has chosen to pay back the loan in 66 payments and the interest rate will be 7.6%. How much will he pay each month? Express your answer as a dollar amount to the nearest cent.

5. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

Amount Financed = Cash Price - Down Payment

$$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

Total Amount Repaid = Number of Payments x Monthly Payment

Finance Charge = Total Amount Repaid - Amount Financed

Monthly Payment on a $100 Loan				
Term in	Annual Percentage Rate			
Months	4.1%	4.7%	5.5%	6.3%
30	$3.51	$3.54	$3.58	$3.61
36	2.96	2.98	3.02	3.06
42	2.56	2.59	2.62	2.66
48	2.26	2.29	2.33	2.36
54	2.03	2.06	2.09	2.13
60	1.85	1.87	1.91	1.95
66	1.69	1.72	1.76	1.80
72	1.57	1.60	1.63	1.67

Juan Escalante obtained a loan from Nifty-Loan for $11,195.55 to buy a boat. Juan has chosen to pay back the loan in 36 payments and the interest rate will be 5.5%. How much will the total amount repaid be for his loan? Express your answer as a dollar amount to the nearest cent.

6. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

Amount Financed = Cash Price - Down Payment

$$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

Total Amount Repaid = Number of Payments x Monthly Payment

Finance Charge = Total Amount Repaid - Amount Financed

Monthly Payment on a $100 Loan				
Term in	Annual Percentage Rate			
Months	9%	9.7%	10.3%	11.2%
12	$8.75	$8.78	$8.81	$8.85
18	5.96	5.99	6.02	6.06
24	4.57	4.60	4.63	4.67
30	3.73	3.77	3.80	3.84
36	3.18	3.21	3.24	3.28
42	2.78	2.82	2.85	2.89
48	2.49	2.52	2.55	2.59
54	2.26	2.29	2.32	2.37

Deavin Christian obtained a student loan from Swifty-Loan for $8,604.47. Deavin has chosen to pay back the loan in 18 payments and the interest rate will be 9%. How much will the total amount repaid be for his loan? Express your answer as a dollar amount to the nearest cent.

7. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

Amount Financed = Cash Price - Down Payment

$$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

Total Amount Repaid = Number of Payments x Monthly Payment

Finance Charge = Total Amount Repaid - Amount Financed

Monthly Payment on a $100 Loan				
Term in	Annual Percentage Rate			
Months	6.1%	6.9%	7.8%	8.6%
6	$16.96	$17.00	$17.05	$17.09
12	8.61	8.65	8.69	8.73
18	5.83	5.86	5.90	5.94
24	4.44	4.47	4.51	4.55
30	3.60	3.64	3.68	3.72
36	3.05	3.08	3.12	3.16
42	2.65	2.69	2.73	2.77
48	2.35	2.39	2.43	2.47

Deavin Norton obtained a loan from Nifty-Loan for $2,304.74 to buy a van. Deavin has chosen to pay back the loan in 12 payments and the interest rate will be 6.9%. How much will the finance charge be for his loan? Express your answer as a dollar amount to the nearest cent.

8. An installment loan is repaid with equal payments at equal intervals for a specified period of time. Usually a down payment is made at the time of purchase and the balance is financed. Here are some formulas for such a transaction:

Amount Financed = Cash Price - Down Payment

$$Monthly\_Payment = \frac{Amount\_of\_Loan}{\$100} \times Monthly\_Payment\_for\_\$100\_Loan$$

Total Amount Repaid = Number of Payments x Monthly Payment

Finance Charge = Total Amount Repaid - Amount Financed

Monthly Payment on a $100 Loan				
Term in	Annual Percentage Rate			
Months	6.1%	6.8%	7.7%	8.2%
24	$4.44	$4.47	$4.51	$4.53
30	3.60	3.63	3.68	3.70
36	3.05	3.08	3.12	3.14
42	2.65	2.68	2.72	2.75
48	2.35	2.39	2.43	2.45
54	2.12	2.15	2.20	2.22
60	1.94	1.97	2.01	2.04
66	1.79	1.82	1.86	1.89

Deavin Escalante obtained a loan from Jiffy-Loan for $7,531.86 to buy a truck. Deavin has chosen to pay back the loan in 24 payments and the interest rate will be 6.8%. How much will the finance charge be for his loan? Express your answer as a dollar amount to the nearest cent.

Installment Loans
Answer Section

NUMERIC RESPONSE

1. ANS: 2,485.81

   PTS: 1
2. ANS: 1,505.10

   PTS: 1
3. ANS: 193.18

   PTS: 1
4. ANS: 130.15

   PTS: 1
5. ANS: 12,171.80

   PTS: 1
6. ANS: 9,230.88

   PTS: 1
7. ANS: 87.58

   PTS: 1
8. ANS: 548.32

   PTS: 1