

1. We wish to buy a TV set for \$ 4000. The store has a finance plan that involves a down payment of \$ 400 and 7% APR for 24 months.
  - (a) Determine the finance charge.
  - (b) Determine the amount of a monthly payment.
  - (c) Determine the total installment price. (The total installment price is the sum of all payments, including the down payment.)
  
2. We wish to buy a used car for \$ 6500. The store has a finance plan that involves a down payment of \$ 500 and 8% APR for 36 months.
  - (a) Determine the finance charge.
  - (b) Determine the amount of a monthly payment.
  - (c) Determine the total installment price.
  
3. We wish to buy a used car for \$ 8000. The store has a finance plan that involves no down payment and 8.5% APR for 60 months. Determine the monthly payment.
  
4. We wish to buy a TV set for \$ 3000. The store has a finance plan that involves a down payment of \$ 200 and 12 monthly payments of \$ 242.92. Find the APR that the store charges.
  
5. We wish to buy a used car for \$ 7000. The store has a finance plan that involves a down payment of \$ 400 and 48 monthly payments of \$ 158.04. Find the APR that the store charges.
  
6. We wish to buy a used car for \$ 5000. The store has a finance plan that involves no down payment and 30 monthly payments of \$ 186.73. Find the APR that the store charges.

Payments	4%	4.5%	5%	5.5%	6%	6.5%	7%	7.5%	8%	8.5%	9%
6	1.17	1.32	1.46	1.61	1.76	1.90	2.05	2.20	2.35	2.49	2.64
12	2.18	2.45	2.73	3.00	3.28	3.56	3.83	4.11	4.39	4.66	4.94
18	3.20	3.60	4.00	4.41	4.82	5.22	5.63	6.04	6.45	6.86	7.28
24	4.22	4.75	5.29	5.83	6.37	6.91	7.45	8.00	8.54	9.09	9.64
30	5.25	5.92	6.59	7.26	7.94	8.61	9.30	9.98	10.66	11.35	12.04
36	6.29	7.09	7.90	8.71	9.52	10.34	11.16	11.98	12.81	13.64	14.48
48	8.38	9.46	10.54	11.63	12.73	13.83	14.94	16.06	17.18	18.31	19.45
60	10.50	11.86	13.23	14.61	16.00	17.40	18.81	20.23	21.66	23.10	24.55