HOMEWORK...

p. 568: #4, 5, 6, 10, 11

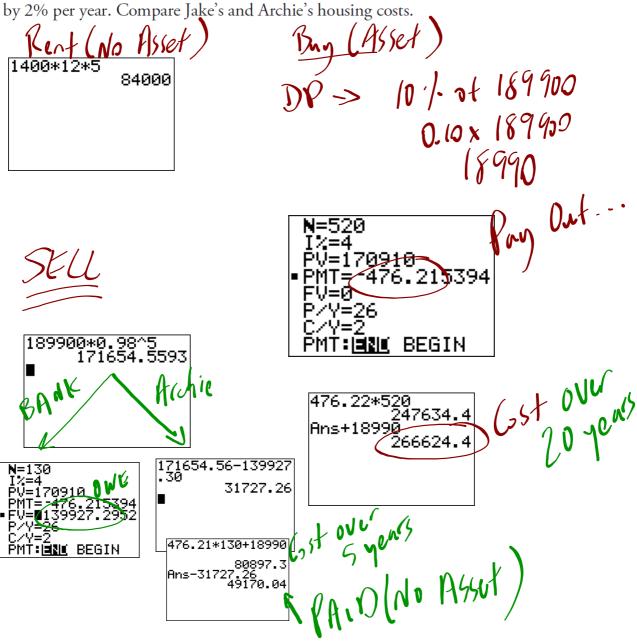
4. Kami needs a new septic bed for her home's sewage system. Since she is in the business of landscaping, she can do the job herself. Kami estimates that the job will take at least 3.5 days to complete, but she will need a backhoe. She could pay \$6000 to rent a backhoe for a week, or she could pay \$700 per half day. Which should she do? Explain.

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Week $\Rightarrow 603067$ $\Rightarrow 3.5 \times 2 \times 700$ $\Rightarrow 3.5 \times 900$

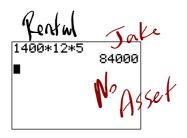
- **6.** Jake and Archie are looking for places to live.
 - Jake decides to rent a house for \$1400 per month.
 - Archie buys a house for \$189 900, with a down payment of 10%. The bank has offered Archie a 20-year mortgage for the remainder of the cost, at 4% compounded semi-annually, with payments every two weeks.

Jake and Archie both move after 5 years. Archie's house has depreciated by 2% per year. Compare Jake's and Archie's housing costs.

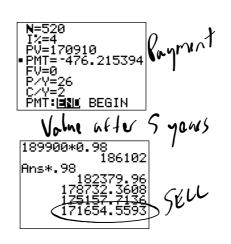


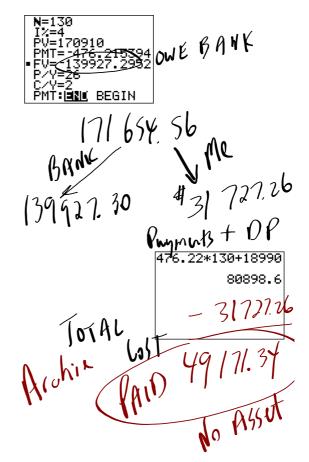
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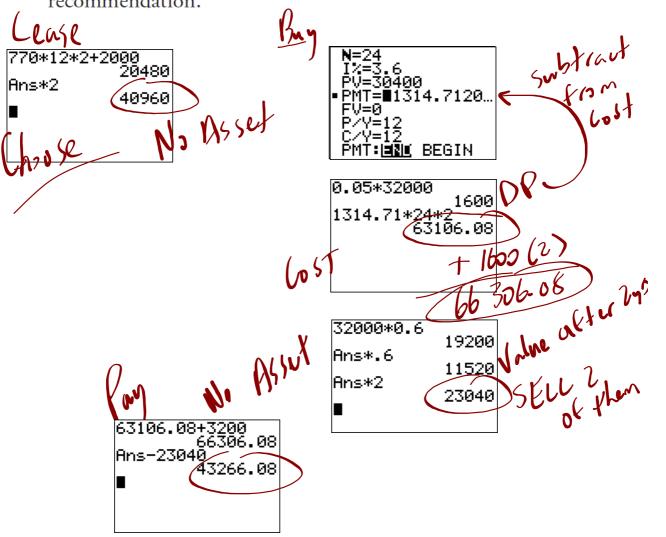
DP > 10.1. of 189 900 0 10 x 189900 18990





10. A company has spent \$70 000 for car rentals over 2 years. The company's financial officer wants to determine if the company should continue to rent or if it should buy or lease two vehicles instead.

- A new car costs \$32 000. A 5% down payment is required. The rest can be financed at 3.6%, compounded monthly, for 2 years. Assume depreciation of 40% a year and monthly payments.
- A 2-year lease for a car requires a down payment of \$2000 and monthly payments of \$770.
- a) Determine the costs of each option: renting, buying, and leasing.
- **b)** Recommend a course of action for the company. Justify your recommendation.



Ready for the test??? REVIEW Time...

Chapter 8: Investing Money

- mid chapter review p. 481
- chp review p. 507
- chp self test p. 506

Chapter 9: Borrowing Money

- mid chapter review p. 539
- chp review p. 573
- chp self test p. 572

Cumulative Review...Chp. 8/9 p. 576

Simple Interest

$$I = \operatorname{Pr} t$$

$$A = P + I$$

$$A = P + \operatorname{Pr} t$$

$$A = P(1 + rt)$$

Compound Interest

$$A = P\left(1 + \frac{r}{n}\right)^{nt}$$

$$I = A - P$$
Present Value

Present Value

$$P = \frac{A}{\left(1 + \frac{r}{n}\right)^{nt}}$$

Rule of 72 and Rate of Return

Doubling Time =
$$\frac{72}{Rate}$$

$$ROR = \frac{\$ earn}{\$ invested} \times 100\%$$

TVM-Solver