

MATH 113 SPRING 2023 DECISION REVIEW DAY PROBLEMS KEY

- 0.1. **Problem 1.** \$82,772.73
- 0.2. **Problem 2.** If you made \$66,250 in income this year:
a. \$10,365
b. 84.35 percent
- 0.3. **Problem 3 (student problem).** 12.2 percent
- 0.4. **Problem 4.** Your hospital bill from treatment from a disease comes out to be 6400 dollars. Your medical insurance plan has a 1700 dollar deductible, and then you cover 25 percent of the remaining expenses after that.
a. \$2875
b. \$3525
c. Increase
- 0.5. **Problem 5.** A and C
- 0.6. **Problem 6.** An engagement ring is pawned at a pawn shop for 500 dollars (yes this is a pitiful rate) and the interest rate the pawn shop charges is 12 percent per month (simple interest). How much money must you repay the pawn shop if you wait:
a. \$620
b. \$740
- 0.7. **Problem 7.** The interest compounds over itself; after every time period, the newly accrued interest has more interest on top of it that gets added.
- 0.8. **Problem 8.** \$685.64
- 0.9. **Problem 9.** D.
- 0.10. **Problem 10.** a. breakfast
b. You get stuck because there is a tie for the least popular meal (by looking at number of first choices)
- 0.11. **Problem 11.** 12 dollars