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| **Student:** _____ | **Instructor:** Theresa Datuin | **Assignment:** 15.4 Application problems Quiz |
| **Date:** _____ | **Course:** MA098_Fa20_Datuin | |

I pledge that I will not use any notes, text, or other reference materials during this assignment. I pledge that I will neither give nor receive any aid from any other person during this assignment, and that the work presented here is entirely my own.

Signature Date

1. A baseball team has home games on Thursday and Saturday. The two games together earn $4165.50 for the team. Thursday's game generates $194.50 less than Saturday's game. How much money was taken in at each game?

   How much money did Thursday's game generate? $_____

   How much money did Saturday's game generate? $_____

   Answers 1985.50

   2180.00

   ID: 15.4.15

2. Building A is 160 feet shorter than Building B. The total height of the two buildings is 1510 feet. Find the height of each building.

   What is the height of Building A? _____ ft
   (Simplify your answer. Type an integer or a decimal.)

   What is the height of Building B? _____ ft
   (Simplify your answer. Type an integer or a decimal.)

   Answers 675

   835

   ID: 15.4.17

3. Solve the following problem using a system of equations.

   How many pounds of nuts selling for $18 per lb and raisins selling for $6 per lb should a person combine to obtain 60 lb of a trail mix selling for $10 per lb?

   The person would need _____ lb of nuts selling for $18 and _____ lb of raisins selling for $6.
   (Type whole numbers.)

   Answers 20

   40

   ID: 15.4.35

4. Suppose that a cyclist began a 585 mi ride across a state at the western edge of the state, at the same time that a car traveling toward it leaves the eastern end of the state. If the bicycle and car met after 9 hr and the car traveled 32 mph faster than the bicycle, find the average rate of each.

The car's average rate is _____ (1) _____
(Type an integer or a decimal.)

The bicycle's average rate is _____ (2) _____
(Type an integer or a decimal.)

(1) ○ mph. ○ hr. ○ mi.

(2) ○ hr. ○ mi. ○ mph.

Answers 48.5

(1) mph.

16.5

(2) mph.

ID: 15.4.39