

Writing and Modeling with Linear Functions: Application Problem

Name:

Per:

Date:

This worksheet accompanies the GeoGebra [Quiz: Modeling with Linear Functions](#) applet.

SCENARIO: (Please copy the details of the problem down by filling in the blanks below.)

Suppose you currently have \$_____ and _____ \$_____ every _____ hours.
(EARN/LOSE)

Let x = amount of time that passes since RIGHT NOW
 y = your total savings after this time

1) Write an EQUATION that describes the relationship between these 2 quantities:

2) What would your total balance be after _____ hours?

3) How many hours would it take for your balance to reach \$_____?

