Algebra   Name: _____

Problem Solving Using Linear Models   Date: _____ Pd: ____

Travis' telephone company charged him $18.45 for 50 minutes of calls in September. In October, his bill was $26.55 for 212 minutes of calls.

1. Write an equation relating the monthly bill, B, and the number of minutes of calls, M.

2. If Travis made 175 minutes of calls in November, what would his monthly bill be?

3. Emily's December telephone bill was $30.20. If she uses the same telephone company that Travis uses, how many minutes of calls did Emily make?

Marvin works for a painting company. He gets a base pay of $850 and $12.50 per hour that he paints.

1. Write a linear model that gives Marvin's monthly pay, P, in terms of the number of hours he paints, H.

2. If Marvin painted for 124 hours this month, what will his monthly pay be?

3. Marvin's pay last month was $2600. How many hours of painting did he do?