2-4 Word Problems *Name:*

For each problem, include an equation, work, and a logical solution.

1. Shirley is going to have the exterior of her home painted. Tim's Painting charges $250 plus $14 per hour. Colorful Paints charges $22 per hour. How many hours would the job need to take to pay the same price?

Equation:

Work:

Solution:

2. Tracey is looking at two different travel agencies to plan her vacation. ABC Travel offers a plane ticket for $295 and a rental car for $39 per day. M & N Travel offers a plane ticket for $350 and a rental car for $33 per day. What is the minimum number of days that Shirley's vacation should be for M & N Travel to have the better deal?

Equation:

Work:

Solution:

3. Three times the sum of a number and 4 is 8 less than one-half the number. Write and solve an equation to find the number.

Equation:

Work:

Solution:

4. A square and a rectangle have the same perimeters. The length of a side of the square is $4x - 1$. The length of the rectangle is $2x + 1$ and the width is $x + 2$. Write and solve an equation to find x.

Equation:

Work:

Solution:

5. Jeremy is looking at two different lawncare companies to weed and mulch his flower beds. Greenscape Lawncare offers to charge $100 for the mulch plus $12 per hr for the labor. D & J Landscape offers to charge $23 per hr for the job including the mulch. What is the minimum number of hours the job could be for D & J Landscape to have the better deal?

Equation:

Work:

Solution: