

## 2-4 Word Problems

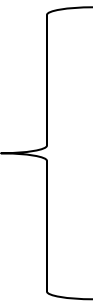
Name: \_\_\_\_\_

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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?

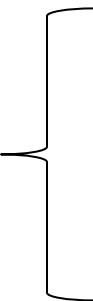
Equation:

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?

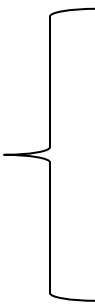
Equation:

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.

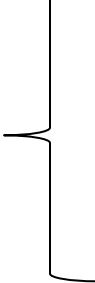
Equation:

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  $x$ .

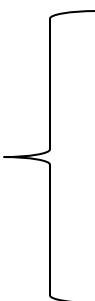
Equation:

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: