

Algebra I

3-6

(Day 2)

Problem Solving Using Charts

Solve. (pg 124)

- 9) Brian O'Reilly earns twice as much each week as a tutor than he does pumping gas. His total weekly wages are \$150 more than that of his younger sister. She earns one quarter as much as Brian does as a tutor. How much does Brian make as a tutor?

	tutor	gas	= total
Brian	$2x$	x	$2x+x$
Sister	$\frac{1}{4}(2x)$		$\frac{1}{4}(2x)$

Let x = wage pumping gas
 $2x$ = wage tutoring

$3x = \frac{1}{4}x + 150$
 $6x = x + 300$
 $6x - x = x + 300 - x$
 $5x = 300$
 $x = 60$

- 13) In March, Rodney sold twice as many cars as Greg. In April, Rodney sold 5 fewer cars than he did in March, while Greg sold 3 more cars than he did in March. If they sold the same number of cars in April, how many cars did each sell in March?

	March	April
Greg	x	$x+3$
Rod	$2x$	$2x-5$

Let x = cars Greg sold
 $2x$ = Rodney's

$$x+3 = 2x-5$$

$$x-x+3 = 2x-x-5$$

$$3 = x-5$$

$$3+5 = x-5+5$$

$$8 = x$$

