Algebra 1 Bellwork Monday, Sept. 29, 2014

- 1. Rusty's Car Rental charges \$100 per day plus \$0.30 per mile travelled. Write and solve an equation to find the number of miles travelled if the total bill came to \$168.10.
- 2. If Rent-a-Clunker charges \$85 per day plus \$0.35 per mile find the number of miles you would need to drive so that the rental bill would be the same for these two car rental company's.

3. Solve.
$$\frac{2}{3}(6m-21)+29=-42$$

4. Simplify. $-\frac{5}{6}R \cdot 84$

5. Simplify. $\frac{5}{16} + \frac{9}{12} - \frac{13}{8}$

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1. Rusty's Car Rental charges \$100 per day plus \$0.30 per mile travelled. Write and solve an equation to find the number of miles travelled if the total bill came to \$168.10.

$$100 + .30m = 168.10$$
 -100
 $30m = 68.10$
 $m = 227 miles$

2. If Rent-a-Clunker charges \$85 per day plus \$0.35 per mile find the number of miles you would need to drive so that the rental bill would be the same for these two car rental company's.

3. Solve.
$$\frac{2}{3}(6m-21)+29=-42$$
 $M = \frac{57}{4} = -\frac{14}{25} + \frac{14}{29} = -\frac{42}{4}$
 $4m + \frac{15}{15} = -\frac{42}{15}$
 $4m + \frac{15}{15} = -\frac{42}{15}$

$$\frac{4m=-57}{4}$$

4. Simplify. $-\frac{5}{6}R \cdot 84$

5. Simplify. $\frac{3}{2} \cdot \frac{5}{16} + \frac{9.4}{124} \cdot \frac{13}{8} \cdot \frac{5}{6}$

$$\frac{15}{48} + \frac{36}{48} - \frac{78}{48} = \frac{-27}{48} = \frac{1}{48}$$

$$= \frac{-9}{16}$$