Warm up

1. Forrester drives 90 miles an hour. It takes her 1.5 hours to get to work. Her car gets 30 miles per gallon. The cost of gas is $2.50. How much does she spend on her way to work?

$$\frac{90 \text{ miles}}{1 \text{ hr}} \cdot \frac{1.5 \text{ hr}}{1 \text{ work}} \cdot \frac{1 \text{ gal}}{30 \text{ miles}} \cdot \frac{\$2.50}{1 \text{ gal}}$$

$\$11.25$

2. Simplify

$$4\sqrt{8} - \sqrt{3} + 6\sqrt{3} - 6\sqrt{2}$$

$8 = 2 \cdot 4$, $4 = 2 \cdot 2$

$$4 \cdot 2\sqrt{2} - \sqrt{3} + 6\sqrt{3} - 6\sqrt{2}$$

$$8\sqrt{2} + 5\sqrt{3} - 6\sqrt{2}$$

$$2\sqrt{2} + 5\sqrt{3}$$

Rational and Irrational Number Sort

Directions: Sort the numbers and words into 2 groups – rational or irrational. Write the answers in the appropriate group.

• Whole Numbers • Non-Perfect Square Roots • Integers • Non-Repeating Decimals • π • $\sqrt{121}$ • 2.389746… • 3.77 • $-\sqrt{400}$	• Non-Terminating Decimals • Terminating Decimals • Perfect Square Roots • Repeating Decimals • $\sqrt{32}$ • 0 • -17 • 2.75 • 6 ½