Warm up

Forrester is racing Cain and driving at a rate of 95 miles an hour. It takes them 1 hour and 30 minutes to get to their destination (ice cream shop duh). The car gets 55 miles per gallon and gas costs $2.30. How many meters do they drive? How much does it cost them to drive?

1 meter = 3.3 ft

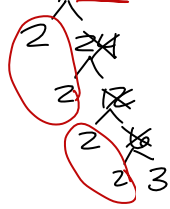
$$\frac{95\text{ miles}}{1\text{ hr}} \cdot \frac{1.5\text{ hr}}{1\text{ shop}} \cdot \frac{1\text{ gal}}{55\text{ miles}} \cdot$$

$$\frac{95\text{ miles}}{1\text{ hr}} \cdot \frac{1.5\text{ hr}}{1\text{ shop}} \cdot \frac{5280\text{ ft}}{1\text{ mile}} \cdot \frac{1\text{ m}}{3.3\text{ ft}}$$

228,000m to shop

② Simplify

$4x^2\sqrt{48x} - 2x\sqrt{12x^3}$



$2 \cdot 2 \cdot 2 \cdot x\sqrt{3x}$

$4 \cdot 2 \cdot 2 \cdot x^2\sqrt{3x}$

$-4x^2\sqrt{3x} + 16x^2\sqrt{3x}$

$12x^2\sqrt{3x}$

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