**Lesson 1 Problem-Solving Practice**

***Solve Equations with Rational Coefficients***

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|  | **1. RECYCLING** The Swiger family recycles about 15 pounds of waste a week. This is $\frac{2}{5}$ of the total waste for the week. How many pounds of waste does the family produce each week? |  | **2. SCHOOL** Four-ninths of the students at Edison Junior High School walk to school. If 248 students walk to school, how many students attend Edison Junior High School? |
|  | **3. HEART RATE** Melinda’s heart beats 15 times during $\frac{1}{6}$ of a minute. At that rate, how many times does her heart beat each minute? |  | **4. SPACE** The weight of an object on the Moon is one-sixth its weight on Earth. If an object weighs 48 pounds on the Moon, how much does it weigh on Earth? |
|  | **5. FINANCIAL LITERACY** Candace used $\frac{5}{8}$ of her savings to buy a $531.25 laptop. How much did she have in savings before purchasing the laptop? |  | **6. BOOK FINES** The library charges $0.15 a day for each day a book is late. How many days late is a book if the fine is $2.10? |
|  | **7. DONATIONS** Seven-ninths of the weight of food donated by the Art Club is canned goods. The Art Club donated 362$\frac{4}{9}$ pounds of canned goods. How many total pounds did the Art Club donate? |  | **8. TEXTING** Josiah’s cell phone plan allows for a number of minutes of air time for $20.00 a month. Each minute costs $0.02. How many minutes of air time is he allowed? |