Answer on question 39159 – Math – Abstract Algebra

Cai, Mark, and Jen were raising money for school. Cai collected 2 1/2 times as Mark collected 2/3 as much as Jen. Who collected the most? Who collected the least? Explain

Solution

Let Jen collected x. Then Mark collected $\frac{2x}{3}$ and Cai collected $2.5 * \frac{2x}{3} = \frac{5x}{3} = 1\frac{2}{3}x$.

As we can see, Cai collected most money, because $1\frac{2}{3}x > x$ and $1\frac{2}{3}x > \frac{2}{3}x$.

The least sum of money has Mark, because $\frac{2}{3}x < x$.

Answer: Cai collected the most, Mark collected the least.