

Weekly Question (12 Dec)

Caitlyn had **\$80 more** than **Beatrice** at first. After **Caitlyn** spent $\frac{1}{4}$ of her money and **Beatrice** spent $\frac{1}{3}$ of her money, Caitlyn had **\$83 more** than Beatrice. How much money did each girl have at first?

Solution:

$\frac{1}{3}$ and $\frac{1}{4} \rightarrow$ LCM of 3 and 4 = 12

Let Beatrice \rightarrow 12 units; Caitlyn \rightarrow 12 units + \$80

	<u>Caitlyn</u>	<u>Beatrice</u>
At first	12u + \$80	12u
Spent	$\frac{1}{4}$	$\frac{1}{3}$
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Left	$\frac{3}{4} \times (12u + \$80)$ $\rightarrow 9u + \$60$	$\frac{2}{3} \times 12u$ $\rightarrow 8u$

8 units + \$83 \rightarrow 9 units + \$60

1 unit \rightarrow \$23

12 units \rightarrow **\$276** (Beatrice)

12 units + \$80 \rightarrow **\$356** (Caitlyn)