

The Mangoes Problem

NAME _____

As a group, work to solve the following problem. Explain your strategy and the reason you chose that strategy.

1. One night the King couldn't sleep, so he went down into the Royal kitchen, where he found a bowl full of mangoes. Being hungry, he took $\frac{1}{6}$ of the mangoes.

Later that same night, the Queen was hungry and couldn't sleep. She, too, found the mangoes and took $\frac{1}{5}$ of what the King had left.

Still later, the first Prince awoke, went to the kitchen, and ate $\frac{1}{4}$ of the remaining mangoes.

Even later, his brother, the second Prince, ate $\frac{1}{3}$ of what was then left.

Finally, the third Prince ate $\frac{1}{2}$ of what was left, leaving only three mangoes for the servants.

How many mangoes were originally in the bowl?

