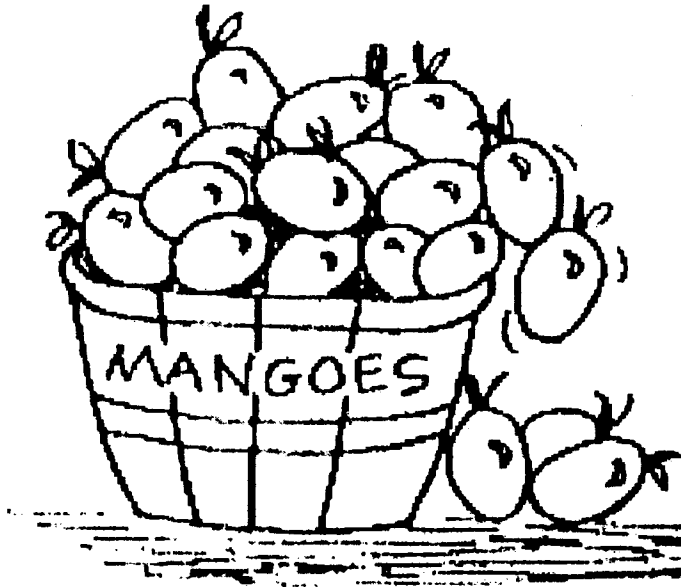


## The "Mangoes Problem"

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- 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?