

Mystery Bags

In the Kingdom of Montarek, the ambassadors carry diplomatic pouches. The contents of the pouches are unknown except by the ambassadors. Ambassador Milton wants to send one-dollar gold coins to another country.



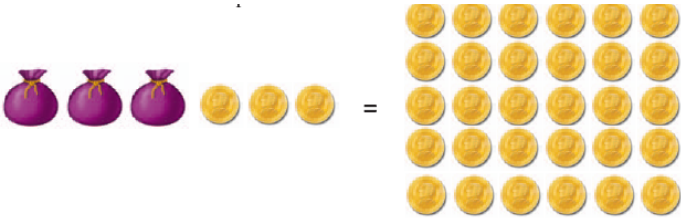
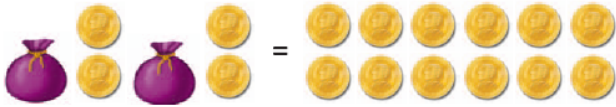


His daughter, Sarah, is a mathematician. She helps him devise a plan based on equality to keep track of the number of one-dollar gold coins in each pouch.

In each situation:

- Each pouch contains the same number of one-dollar coins.
- The number of gold coins on both sides of the equality sign is the same, but some coins are hidden in the pouches.



Try to find the number of coins in each pouch. Be sure to record your strategies.

Original Problem	Strategy	Symbolic Representation
<p>1.</p> 		
<p>2.</p> 		
<p>3.</p> 		
<p>4.</p> 		

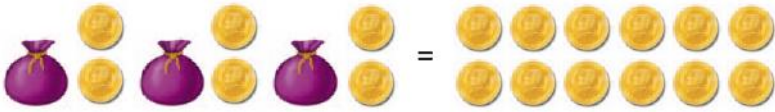
5



6.



7.



8.



9.

