5.) On Box A, the sign reads “At least one of these boxes contains $1 million.” Box B reads, “a deadly snake that will kill you instantly is in Box A.”

If both statements are true, then there is definitely a snake in Box A, and by the sign on Box A, the $1 million must be in \boxed{Box B}.

However, the key is to think about when both statements are false. This gives a contradiction because then is neither a snake, nor the $1 million in Box A. But there must be something.

Therefore, both statements are true, and you should choose \boxed{Box B}.

7.) Chip should not be trying to set \(30 = 9 \times 3 + 2\).

Rather, \(25 = 9 \times 3 - 2\).

One can think of each of the three paying $9, getting $2 back from Chip, which Milly pockets.
11.) Here is one possible solution to the problem:

During the first 10 miles, Bob, Mary, and Ivan are all in the taxi, hence they should split the cost for 10 miles.

\[ 1.50 \text{$/mi} \times 10 \text{mi} = 15 \text{} \]

Split three ways, each pays $5. \boxed{Bob therefore pays a total of $5.}

The next 10 miles still cost $15, but should be split equally between Mary and Ivan.

\[ \text{Mary therefore pays } 5 + 7.50 = 12.50 \]

\[ \text{Ivan therefore pays } 5 + 7.50 + 15 = 27.50 \]

13.) In the cup of tea, we have 3oz of tea, and 1oz of milk. Therefore it is 75% tea. Assuming everything has mixed, when removing some of the mixture, it will remain \boxed{75% tea.}

In the cream cup, we have 2oz of cream, after removing 1oz. The 1oz of fluid poured back into the cream cup is 0.75oz tea, and 0.25oz cream.

We therefore have $\frac{2.25}{2.25 + 0.75} = 0.75 \Rightarrow \boxed{75\% \text{ cream}}$.
15.) Label the stones 1-12. First, weigh 1, 2, 3, 4 vs. 5, 6, 7, 8

If they balance, we know the diamond is in 9, 10, 11, 12. Weigh 9, 10, 11 vs. 1, 2, 3 and 9, 10, 11 is heavy.

If they don't balance, then 9, 10, or 11 is a heavy diamond. Weigh two against each other, to use final scale if needed.

Assume that if they don't balance, 5, 6, 7, 8 is heavy. Weigh 1, 5, 6 vs. 2, 7, 8.

If they balance, the diamond is in 3 or 4, and the final scale can be used.

If it doesn't balance, and 2, 7, 8 is heavy, then either 7, 8 is a heavy diamond, or 1 is a light diamond. The final scale can determine which is the case.

If however, 9, 10, 11 was light, do the same procedure, except now the diamond will be light.