Mathematical Task NS1

Solve each situation using any method OTHER THAN the standard algorithm: Be prepared to justify your answers with your chosen method.

1. Gary had a pound of jelly beans and put 1/8 of a pound in each bag, how many bags could he fill?
2. Linda had half a pound of jelly beans and put the same amount in each bag that Gary did; how many bags could she fill?
3. Joe had 7/8 of a pound of jelly beans and filled each of his bags with ¼ of a pound, how many bags could he fill?

\*Here they will see that there are some left over. What does that left over amount represent in the quotient? In fractional form, is the remainder a fraction of the whole or a fraction of the divisor? (divisor) Guide this discussion. How do they know? How can they prove it?

1. Christina had ¾ of a pound and filled each of her bags with 1/6 of a pound. Jan had the same amount, but she filled her bags with 2/15 of a pound. Which one was able to fill the most bags? Which one had the most left over?
2. Out of all five friends, who was able to fill the most bags? Order them from greatest to least. Who had the most left over? Order them from greatest to least.

\*How is the size of the divisor and the dividend affecting the quotient? Are there any patterns? How can you begin to estimate your quotient based on what you are noticing?

1. Write your own situation where a friend would be able to fill more bags than Christina, but have less left over than Jan.