

Muffles' Truffles Lesson

Muffle's Truffles Shop Story

Muffles has a small truffles shop. He makes truffles and packages them in boxes of ten. When he first opened this shop, he had only a few customers - his family and friends. His truffles were so delicious, so delectable, that soon his customers couldn't stop eating them. They also couldn't stop talking about the most delicious truffles in the world. They told their friends, who in turn told their friends, who in turn told their friends, and before Muffles knew it he had so many customers he could hardly keep up with the demand for truffles. Long lines of people waited outside his door; sometimes the line snaked around the corner. Sometimes there were so many customers that Muffles ran out of truffles. What sad faces! What disappointment!

Muffles tried to keep up. He got up very early in the morning. He worked late into the night. But no matter what he did, he just couldn't keep up with the demands for truffles. Finally, Muffles had an idea. He hired assistants to help him. Now one assistant packages the truffles and the other sells them. All Muffles has to do is make the truffles, which is what he really, truly loves to do.

Muffles is happy again. He loves getting up early in the morning to make his candies. After he makes a batch of a certain kind of truffle, he counts them, puts them on a tray, and labels the tray for his assistant, Patricio, who will package them. When Patricio arrives later in the morning, he has many trays or batches of many kinds of truffles to package. He has strawberry truffles, dark chocolate truffles, truffles with pecans and caramel, and raspberry truffles. He has green truffles with pistachios, vanilla truffles with cinnamon and nutmeg. So many kinds, it's no wonder Muffles is becoming famous! When Patricio sees all the trays, he thinks, "How many boxes do I need to get from the shelf? Will there be any leftovers that can be used to make boxes that might contain an assortment?" This is what each box looks like.

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Muffles Truffles Box

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Truffles Inventory List

One day Muffles makes ten different kinds of truffles. This is the list of the different trays Patricio sees when he comes into work that day:

- 218 raspberry truffles
- 132 strawberry truffles
- 174 dark chocolate truffles
- 83 vanilla truffles with cinnamon and nutmeg
- 126 green truffles with pistachios
- 308 truffles with pecans and caramel
- 97 butterscotch crunch truffles covered in milk chocolate
- 22 truffles with white and dark chocolate swirls
- 44 chocolate - covered cherry truffles
- 46 almond and raisin truffles

Questions to think about:

- How many boxes does Patricio need for each flavor? How many leftovers of each kind will there be?
- Is there a shortcut way to know how many boxes of each kind he needs to pack and how many leftovers there will be for the assortment boxes?
- How many assortment boxes can he make?
- Muffles' sell his fancy truffles for \$1.00 each so his boxes of truffles cost \$10 each. How much money will he collect if he sells them all?