

Bag the Beans

Lesson Title: Bag the Beans

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Work with your partner to pack 8 bean bags (sandwich bags) using the directions, or rules, described below. Read each rule and figure out how many beans of each kind go in each bag, and record your answers in the table that follows.

Note: For some bags there is only one possible solution, while for others there are several correct answers.

1. This bag contains one fewer Lima bean than Red beans. There are four more Black beans than Lima beans. There are 11 beans in all.
2. This bag contains 18 beans total. One third of the beans are Red. One half of the remaining beans are Black. How many Lima beans should go in the bag?
3. This bag contains twice as many Black beans as Red beans. There are 8 Lima beans. There are equal numbers of Lima and Black beans.
4. This bag contains a total of 14 beans. There are four more Black beans than Red beans. There are four times as many Black beans as there are Lima beans.
5. This bag contains an equal number of Lima beans and Black beans. There is one less Red bean than there are Black beans. There are no more than 10 Red beans.
6. This bag contains at least 15 beans. There is one more Lima bean than Red beans. There is one more Red bean than Black beans.
7. This bag contains at least 8 beans. There are three times as many Red beans as Black beans. There is one more Lima bean than Red beans.

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8. This bag contains an equal number of Red beans and Lima beans. There are six more Black beans than Red beans. There are no more than 24 beans total.

Answers to Bag the Beans				
Bag	Lima Beans	Red Beans	Black Beans	Total
1				
2				
3				
4				
5				
6				
7				
8				