

## 6.1 The Heavy Pill

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Takeout:

1 pill from jar 1 → 10g  
2 pills from jar 2 → 20g  
3 pills from jar 3 → 30g  
4 pills from jar 4 → 40g  
5 pills from jar 5 → 50g

Put all 15 pills on scale (1+2+3+4+5)  
Correct weight should be 150g

If actual weight is 149, then jar 1  
If actual weight is 148, then jar 2  
If actual weight is 147, then jar 3  
If actual weight is 146, then jar 4  
If actual weight is 145, then jar 5

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Takeout:

1 pill from bottle 1  
2 pills from bottle 2  
...  
...  
...

If all pills weighed 1 gram, scale should read 55 grams

Weight - 55 grams

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0.1 grams

If pills weighed 55.3 grams, then Bottle #3 would have the heavy pills.