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## QUIZ 3 (1/1 point)

There are 3 pieces of 1 gram weight, 4 pieces of 2 grams weight, 2 pieces of 4 grams weight, how many different ways to weigh the value of 6-gram?

4

**Answer:** 4**EXPLANATION**

The generating function is  $(1+x+x^2+x^3)(1+x^2+x^4+x^6+x^8)(1+x^4+x^8)$ . The answer would be find the coefficient of  $x^6$ . It would be easier to enumerate the coefficient since the power value is just 6.

 $4+1+1$  $2+4$  $2+2+1+1$  $2+2+2$ 

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