2. The prize for a competition is either 1,5, or 10. A person won at least twice of the three games, which of the following could be the prize she won overall? Options: 6, 8, 21, 28, xx

3. A: 2<sup>3</sup><sup>3</sup> B: 2<sup>3(2)</sup>

4. N个integer, 和为 0

A: the least number B: -3

5. A:20!+19!+18!

B: 400(18!)

- 7. Hardcover 书里面 bio 的书占 5%, 整个图书馆里的书 hardcover 的 bio 书占 3%,问 hardcover 的书占整个图书馆百分之多少?
- 8. 一个水箱, 抽走 40 gallon 的水后箱中水量从 1/5 变成了 2/11, 问再加多少水水箱 可以满?
- 9.  $C_1 = 7$ ,  $C_2 = \frac{1}{7}C_1$ ,  $C_i = \frac{1}{7}C_{i-1}$

A: C<sub>14</sub> B: 49<sup>6</sup>C<sub>26</sub>

10. Normally distributed 的情况下大概 95%的值都在上下 2 个 SD 哪,问大于 2 个 SD 的 值的 portion 大概是多少?

Options: A. 2% B. 5% C. 30% D.40%

11. 有两个都 normally distribution. 第一个 average = 15, SD = 4, 第二个 average = 3, SD = 1.

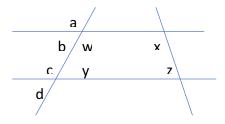
A: 第一个 distribution 被覆盖在「7, 19] 之间的值的 portion

B: 第二个 distribution 被覆盖在「1,4] 之间的值的 portion

12. -1<x<0, y>1

A: X<sup>-2</sup> B: Y<sup>-2</sup>

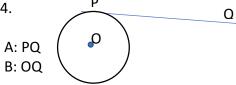
13.

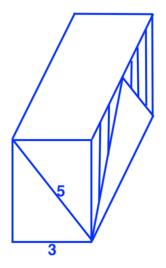


A: a+b+c+d

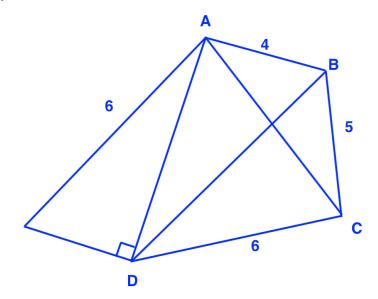
B:w+y+x+z

14.





16.



A: ABCD 周长

B: 21