**01**

Se o desvio padrão é igual a 13, qual é o valor da variância?

***169***

**Solução do professor**

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**02**

Se a variância tem igual a 324, qual é o valor do desvio padrão?

***18***

## Solução do professor

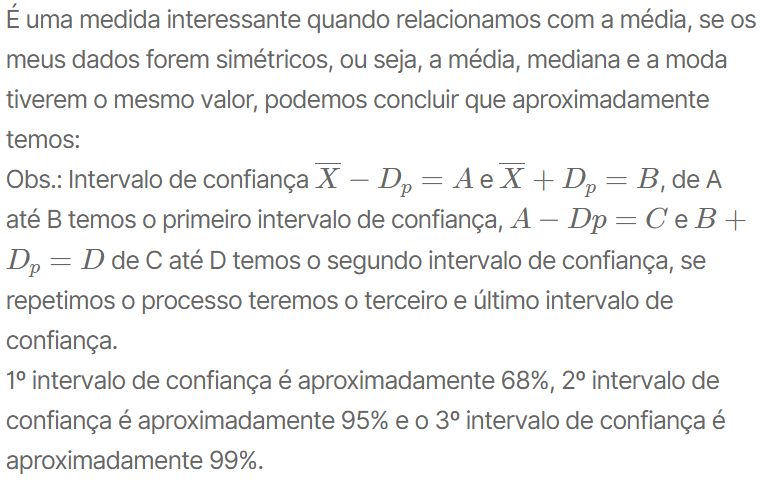
****

**03**

Se os meus dados forem simétricos, ou seja, a média, mediana e a moda tiverem o mesmo valor, podemos concluir que a porcentagem dos intervalos de confiança que aproximadamente temos é:

***1º intervalo de confiança é aproximadamente 68%, 2º intervalo de confiança é aproximadamente 95% e o 3º intervalo de confiança é aproximadamente 99%***

## Solução do professor

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**04**

A maioria das pessoas acredita que podem confiar plenamente na Média Aritmética, mas isto não é verdade. Veja este exemplo simples: João e Maria vão num restaurante e pedem dois frangos; Maria estava sem fome e João come os dois – A média de frango por pessoa, neste caso, é 1 para cada pessoa, mas já sabemos que Maria não comeu nenhum! Por isso estudamos outros tipos de medidas para relacionarmos e chegarmos numa conclusão real e satisfatória. Quais são as medidas de tendência central?

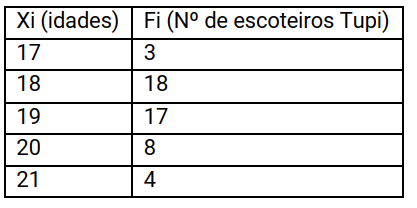
***Média, moda e mediana***

## Solução do professor

São medidas de tendência central:  
Moda, média e mediana.

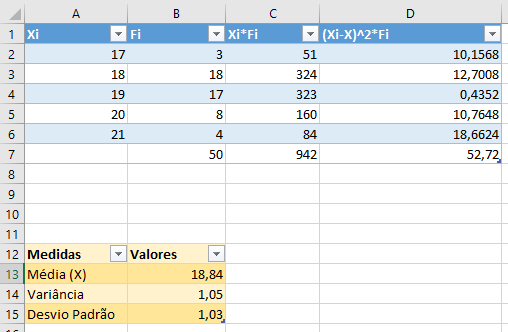
**05**

Dada a tabela, qual é a variância?



Clique sobre a imagem para ampliar

***1,05***

******

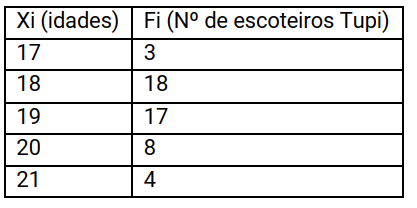
**Solução do professor**

Tabela

Descrição gerada automaticamente

**06**

Dada a tabela, qual é o desvio padrão?



Clique sobre a imagem para ampliar

***1,03***

***Tabela

Descrição gerada automaticamente***

## Solução do professor

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## Pensar & Responder

Uma empresa realizou uma avaliação de desempenho de um sistema web. Nessa avaliação, foram determinados: o desvio padrão e a média do tempo de resposta do referido sistema, tendo como base 1000 consultas realizadas. Constatou-se que o tempo de resposta do sistema web possui distribuição Normal, com curva de frequência perfeitamente simétrica. Desta forma, identificou-se o intervalo de confiança para a média do tempo de resposta das consultas, sabendo-se que a média aritmética da distribuição é igual a 10 min e o desvio padrão de 0,5 min. Quais os limites do intervalo de confiança correspondentes a 95% dos valores da curva?

![Tabela

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZ2lhbmUgU2FudGFubmEAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMwMQAAkpIAAgAAAAMwMQAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hR/wAKj8If9C7pn/gKn+Fd3RQBwn/Co/CH/Qu6Z/4Cp/hSj4R+EM8+HNM/8BU/wruqKAK9hZQ6dYQWdrGsUEEaxxRoMKiqMAAdgAMVzfxR0TUPEfwy1nSdGt/tN9dRKsMW9U3EOp6sQBwD1NdZRQBm+G7SfT/Cmk2d2nl3FvZQxSpkHayoARkcHkdq0qKKACiiigArI8T643h7QLi/h0+91GdVIgtrK1ed5JMEqCEBwMjljgD16Vr0UAfPn7O1jq+ga9ro8UaFrNldap5RguLjTZljYr5jPufbtXOV64Br6DoooAKKKKACiiigAooooAKKKKAMzxDrP9g6LPfiwvdQeMfJbWNu00sjdgFUZx79BXzv8Eb7Wvht/bf9u+BvFtx/aH2fyvsekO23y/Mzu3bf74xjPevpuigDyHxH4r+IPjTTpNI8FeDtQ0OO7UpLqesMtu0SHrhMkg4PUZI7DPI6n4X/AA2svhv4cazhlF1f3TCS8utuN7AcKB2UZOPqT3rtaKACiiigArxH4U/8l9+Iv/XY/wDo017dVK00TSrDULm+sdMs7a8ujm4uIbdUkmOc/OwGW59aALtFFFABXzR4ju9avf2grLxhbeDPFEuk2JjXKaRKJJQqEEhWAxye5HAr6XooA81uviprl3bsnhv4beKJbtuE/tO1FpGD6lix4/L6isv4f/CvWB40m8efEe4iuNdlJaC0iO5LY42gkjjIXgAZAHOSenr1FAHO/EP/AJJh4p/7A93/AOiXrw34BeKtY8L+E7xZfC+q6rotzeNJHdaXCJ3jmCqrq0YO7GAnP8+3svxU1jT9J+GHiAaleQ27XWnXFvbrI4DSyPGyqqjqTkjp9a87/Zk8S6Y3g+58PPdRpqkd5JOtux+aSIonzD1wQQR2x70AO8a6b4m+NeqaZpFtoWpeHvDVpOZ7q71WIQyyNjb8sROeAWA7fNzivarGyg03T7exs4xFb20SwxIP4UUAAfkKnooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvnTxZqtjZfte6RcXN1FHDCkUUrs4Cxs0TAAk8D7y/nX0XXPN8PvBjMWbwjoJJOSTpkPP8A47QB0CsGUMpBBGQR3pajt7eGztYra0hjgghQRxRRKFWNQMBQBwAAMACpKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/2Q==)

***A = 10 – 0,5*** ***A-----------68%-----------B*** ***B = 10 + 0,5***

***C = A – 0,5*** ***C------------------95%------------------D*** ***D = B + 0,5***

***C = 9***

***D = 11***