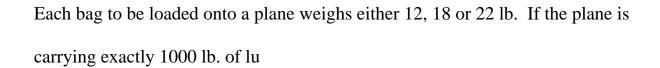
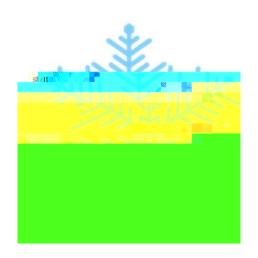


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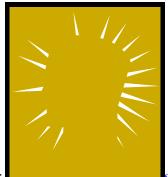


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Suppose there is a 40% chance of getting freezing rain, a 10% chance of getting snow and freezing rain, and an 80% chance of getting snow or freezing rain. Find the chance of getting snow.



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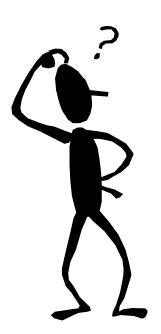
Distinct points A, B, C, and D lie on the circle x^2 y^2 25 and have integer coordinates. The distances AB and CD are irrational numbers.

What is the greatest possible value of the ratio $\frac{AB}{CD}$?





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If the 3rd and 12th terms of an arithmetic sequence are -7 and 56, respectively, then 28 is which term of the sequence?

