

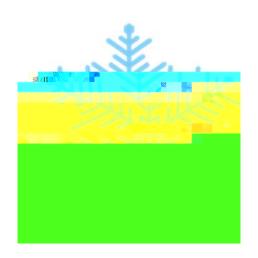
## **ROUND #2**

## University of North Georgia Mathematics Tournament April 7, 2018

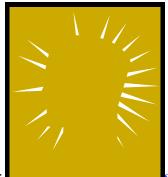
Each bag to be loaded onto a plane weighs either 12, 18 or 22 lb. If the plane is carrying exactly 1000 lb. of lu

## **ROUND #4**

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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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## **ROUND #7**

University of North Georgia Mathematics Tournament April 7, 2018

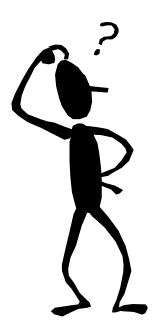
Distinct points A, B, C, and D lie on the circle  $x^2$   $y^2$  25 and have integer coordinates. The distances AB and CD are irrational numbers.

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





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



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