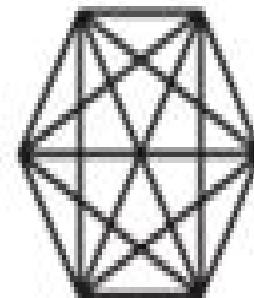




Warm-Up 5

61. _____ What is the value of $(2 \times 6^1 + 6^1) - 7 \times 6^2$?

62. _____ triangles The figure shown consists of a regular hexagon and all of its diagonals. How many triangles in the figure have at least two congruent sides?



63. _____ ways Fido has to climb five stairs. If he stops on at least three of the five stairs, but never climbs more than three stairs in one step, in how many possible ways can Fido climb the stairs?

64. _____ The quotient $\frac{x^1(x^2)^3}{x^y}$ can be expressed as x^r . What is the integer value of y ?

65. \$ _____ A grocery store is required to charge customers an 8% sales tax on certain items. However, some purchases at the store, such as food products, are not subject to sales tax. During a certain month, the store sold \$400,000 worth of groceries, not including the sales tax. If the store also collected \$10,000 in sales tax that month, then what was the

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Jane Chen, Yongcheng Chen

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Mathcounts State Competition Preparation Yongcheng Chen,2015-02-06 The books Volumes 1 to 5 are based the lecture notes from our 2015 Mathcounts State Competition Training Program We have reviewed the manuscripts carefully and some of our students also helped Please email us at mymathcounts@gmail.com if you see any typos or mistakes or you have a different solution to any of the problems in the book We really appreciate your help in improving the books This book can be used by 5th to 8th grade students preparing for Mathcounts State and National Competitions Each chapter consists of 1 basic skill and knowledge section with plenty of examples 2 exercise problems and 3 detailed solutions to all problems Volume 3 <http://www.amazon.com/Mathcounts-State-Competition-Preparation/dp/1505241383> Volume 4 <http://www.amazon.com/Mathcounts-State-Competition-Preparation/dp/1505283493> Volume 5 <http://www.amazon.com/Mathcounts-State-Competition-Preparation/dp/1505241413>

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