
MATHCOUNTS®

2014
■ Chapter Competition ■
Target Round
Problems 3 & 4

Name _____

School _____

DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO.

Total Correct	Scorer's Initials

Raytheon

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3. _____ ways In how many distinguishable ways can the four letters in the word NINE be arranged?

4. _____ quantities A particular online vendor offers discounts for orders of 11 or more shirts, as the table shows. For how many different quantities of shirts would the cost exceed the cost of buying the least number of shirts at the next discount level?

Number of Shirts	Discount
1-10	no discount
11-25	10% off
26-50	15% off
51-100	20% off
101-250	30% off
251 or more	35% off