



### Sample Math Problems

The problems below are similar to problems that will be used for the math contest. We would like for each sponsoring teacher to submit 5 problems for possible use in the contest. Please email the problems that you create to [jbaudy@nojds.com](mailto:jbaudy@nojds.com). Please put MATH CONTEST in the subject line of your email.

#### Plush Playground

Washington School's playground has an area of 1,250 square yards. It is covered in grass, but most of this grass is dead or dying. The student council would like to raise money to recover the field in fresh, new sod (rolls of lush, green grass). After talking to a salesman at Greener Gardens Grass Growers, Joey, the student council treasurer, found out that sod costs 79 cents per square foot, up to 5,000 square feet. Over 5,000 square feet, the price of sod goes down to 69 cents per square foot. Both prices include installation. How much money will the student council need to raise in order to cover the school's playground in sod?

#### Free Lunch

A local fast food restaurant is giving out scratch-off game cards with the purchase of a value meal. Each game card has six spots that reveal different menu items when scratched. Exactly two spots match on each card. A customer may scratch only two spots; if the spots match, the customer wins the menu item under those spots. What is the theoretical probability of winning with one game card?

#### Mystery Number

What is the mystery number?

Clue 1: The number has exactly four factors.

Clue 2: The number is between 1 and 25.

Clue 3: Both 60 and 105 are multiples of the number.



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