

For Office Use Only:  
Date Received \_\_\_\_\_



# Ben Lippen School

## Confidential High School Math Reference

You have been named as one who is able to assess the applicant's academic ability as well as provide information concerning personality and character traits. Will you please evaluate the applicant as objectively and thoroughly as possible? Thank you for your assistance.

Applicant: \_\_\_\_\_ Duration of instruction: \_\_\_\_\_ Grade level during instruction: \_\_\_\_\_

Based on the following scale, please score the applicant's ability in the areas listed below by placing the corresponding number in the blanks provided.

<b>1 = Excellent</b> <i>Answers at least 9 out of 10 problems</i>	<b>4 = Poor</b> <i>Answers less than 5 out of 10 problems</i>
<b>2 = Good</b> <i>Answers about 7 out of 10 problems</i>	<b>5 = N/A</b> <i>Has not studied this area yet</i>
<b>3 = Fair</b> <i>Answers about 5 out of 10 problems</i>	

### Algebra I Concepts

Able to add, subtract, multiply, and divide:

- \_\_\_ Integers (signed numbers)
- \_\_\_ Polynomials
- \_\_\_ Radicals (square roots)

- \_\_\_ Able to graph lines
- \_\_\_ Able to determine the slope of a line

Able to solve:

- \_\_\_ Linear equations in 1 variable
- \_\_\_ Quadratic equations by using factoring
- \_\_\_ Quadratic equations by using quadratic formula
- \_\_\_ Inequalities
- \_\_\_ Systems of equations (elimination and substitution)
- \_\_\_ Fractional equations and inequalities

### Algebra II Concepts

Able to add, subtract, multiply and divide:

- \_\_\_ Expressions with square, cube, fourth roots
- \_\_\_ Rational expressions
- \_\_\_ Complex numbers

- \_\_\_ Able to graph conic sections
- \_\_\_ Able to graph functions of various types

Able to solve:

- \_\_\_ Exponential equations
- \_\_\_ Logarithmic equations
- \_\_\_ Systems of quadratic equations
- \_\_\_ Systems of linear equations using determinants
- \_\_\_ Sequences and series problems
- \_\_\_ Trigonometric equations

### Geometry Concepts

\_\_\_ Able to find the unknown side of a right triangle using:

- \_\_\_ the pythagorean theorem; \_\_\_ trigonometry; \_\_\_ properties of 45-45-90 and 30-60-90 triangles
- \_\_\_ Able to find unknown angles formed by two parallel lines cut by a transversal
- \_\_\_ Able to know and use properties of the different types of quadrilaterals
- \_\_\_ Able to prove two triangles congruent (SAS, ASA, SSS, HL, AAS)
- \_\_\_ Able to find unknown angles and chords in a circle using circle theorems
- \_\_\_ Able to find the area and volume of basic geometric shapes

1. What do you consider the major strong points of the applicant? \_\_\_\_\_  
\_\_\_\_\_
2. What do you consider the major weaknesses of the applicant? \_\_\_\_\_  
\_\_\_\_\_
3. Indicate any special awards, honors, or achievements the applicant has received in math. \_\_\_\_\_  
\_\_\_\_\_
4. Do you have any reservations concerning the applicant's: (*check if "yes"*) \_\_\_ honesty? \_\_\_ integrity?  
If checked, please explain. \_\_\_\_\_  
\_\_\_\_\_
5. Ben Lippen School is a Christian, co-educational, college-preparatory school. Would you recommend the applicant:  
\_\_\_ without reservation? \_\_\_ hesitantly? \_\_\_ not at all?

*Please check the appropriate answers. Please feel free to check more than one if applicable.*

Areas	Rating	Comments
Home Background	<input type="checkbox"/> Superior <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	
Home Discipline	<input type="checkbox"/> Balanced <input type="checkbox"/> Too much <input type="checkbox"/> Too little <input type="checkbox"/> Inconsistent	
Obedience	<input type="checkbox"/> Responds well to authority <input type="checkbox"/> Usually obedient <input type="checkbox"/> Resents authority <input type="checkbox"/> Unpredictable	
Emotional Stability	<input type="checkbox"/> Stable <input type="checkbox"/> Usually well-controlled <input type="checkbox"/> Excitable; moody; upsets others <input type="checkbox"/> Apathetic; irresponsible	
Industry	<input type="checkbox"/> Hard worker <input type="checkbox"/> Good dependable worker <input type="checkbox"/> Works just enough to get by <input type="checkbox"/> Lazy, needs constant supervision	
Sociability	<input type="checkbox"/> Prefers to spend time with others <input type="checkbox"/> Prefers to be solitary <input type="checkbox"/> Cooperates reasonably <input type="checkbox"/> Has difficulty relating to others <input type="checkbox"/> Tends to be bossy, argumentative	
Judgment	<input type="checkbox"/> Unusual maturity <input type="checkbox"/> Average common sense <input type="checkbox"/> Showing improvement <input type="checkbox"/> Often irresponsible	
Responsibility	<input type="checkbox"/> Excellent; volunteers for tasks <input type="checkbox"/> Usually accepts when asked <input type="checkbox"/> Avoids when possible <input type="checkbox"/> Often irresponsible	
Personal Appearance	<input type="checkbox"/> Well-groomed along conservative lines <input type="checkbox"/> Well-groomed following newer styles <input type="checkbox"/> Neglects fine detail <input type="checkbox"/> Careless; unattractive	
Homework (if applicable)	<input type="checkbox"/> Assignments always turned in on time and well done <input type="checkbox"/> Assignments occasionally late and/or disorderly <input type="checkbox"/> Assignments often not completed <input type="checkbox"/> Assignments seldom done adequately	
Parents' Involvement (if applicable)	<input type="checkbox"/> Eagerly seek to be involve in student's academic progress and school events <input type="checkbox"/> Must be contacted to encourage their involvement <input type="checkbox"/> Always cooperative and supportive <input type="checkbox"/> Often defensive and unsupportive <input type="checkbox"/> Have remained uninvolved	

Name and Title \_\_\_\_\_

Address \_\_\_\_\_ Phone \_\_\_\_\_

*The time and effort you have given to completing this form is appreciated. If you wish to provide additional information, please do so on another sheet of paper. Please return the completed form to:*

**Ben Lippen School, Admissions Office  
 P. O. Box 3999, Columbia, SC 29230  
 (803) 786-7200 / Fax: (803) 744-1387**