



# Boston Preparatory Charter Public School

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June 24<sup>th</sup>, 2009

Dear future 8<sup>th</sup> Grader,

Greetings from the Math Department at Boston Prep. All students at Boston Prep receive summer assignments for their classes to make sure that they keep their skills fresh over the course of the summer. The assignment that is enclosed has been designed so that you can reinforce a few of the important skills necessary to help you excel in both of your math classes next year. On the first day of school, you will take a math quiz in Applied Math on these important facts.

## Assignment Details

The assignment is staggered over six weeks and is designed to provide ongoing practice throughout the summer.

To complete this assignment, you will need to either buy some flashcards or make your own. If you would like to purchase flashcards, we recommend buying 3 inch by 5 inch cards or 4 inch by 6 inch cards at your local grocery, convenience or discount superstore. If you'd like to make your own cards, we recommend using paper a little thicker than regular lined paper and cutting it into fourths.

Though the flashcards are scheduled for Week 6, you should create them and use them if you are ready before Week 6. Once you have created your flashcards, you should ask an adult or sibling to quiz you throughout the summer. Mastering this assignment will help you to make sure that you get the excellent grades you want in your math classes. To accomplish this in the upcoming year, you will have to put in some effort over the summer. Have a great summer and don't forget to study!

Sincerely,

The Math Department

Name: \_\_\_\_\_

Date: \_\_\_\_\_

8<sup>th</sup> Grade  
Algebra and Applied Math  
Summer Assignment  
Week I

Kilo-	Hecto-	Deca-	BASIC UNIT	Deci-	Centi-	Milli-
			Meter			
			Liter			
			Gram			

In the key above, each unit is 10 times larger than the unit to its right. Using this key, fill in the conversion facts below:

1 centimeter = \_\_\_\_\_ millimeters

1 meter = \_\_\_\_\_ centimeters

1 kilometer = \_\_\_\_\_ meters

1 kilogram = \_\_\_\_\_ grams

1 liter = \_\_\_\_\_ milliliters

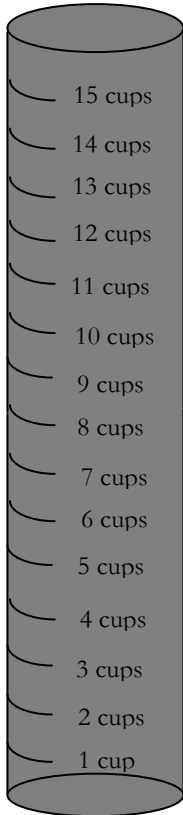
8<sup>th</sup> Grade

# Algebra and Applied Math

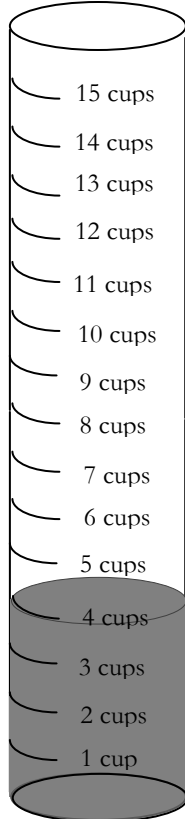
## Summer Assignment, Week II

Name: \_\_\_\_\_

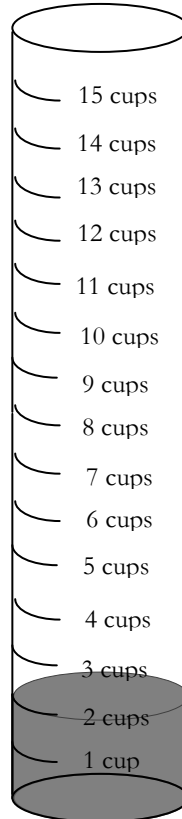
Date: \_\_\_\_\_



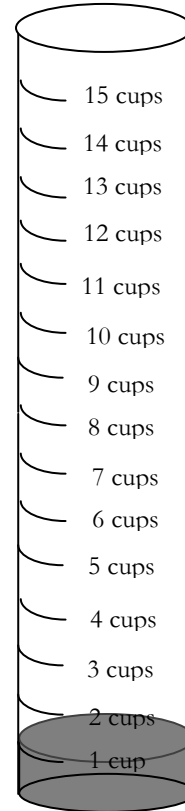
One Gallon



One Quart



One Pint



One Cup

Use the picture above to fill in the conversion facts below:

\_\_\_\_\_ cups = 1 pint

\_\_\_\_\_ pints = 1 quart

\_\_\_\_\_ quarts = 1 gallon

Name: \_\_\_\_\_

Date: \_\_\_\_\_

8<sup>th</sup> Grade  
**Algebra and Applied Math**  
**Summer Assignment, Week III**

Fill in the chart below.

Fraction	Decimal	Percent
$\frac{1}{10}$		
$\frac{3}{4}$		
	.6	
$\frac{1}{3}$		
		50%

Name: \_\_\_\_\_

Date: \_\_\_\_\_

8<sup>th</sup> Grade  
Algebra and Applied Math  
Summer Assignment, Week IV

Fill in the chart below.

Fraction	Decimal	Percent
	.2	
	.125	
		40%
$\frac{5}{8}$		
		$66\frac{2}{3}\%$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

8<sup>th</sup> Grade  
Algebra and Applied Math  
Summer Assignment, Week V

Fill in the blanks below.

$1^2 =$  \_\_\_\_\_

$2^2 =$  \_\_\_\_\_

$3^2 =$  \_\_\_\_\_

$4^2 =$  \_\_\_\_\_

$5^2 =$  \_\_\_\_\_

$6^2 =$  \_\_\_\_\_

$7^2 =$  \_\_\_\_\_

$8^2 =$  \_\_\_\_\_

$9^2 =$  \_\_\_\_\_

$10^2 =$  \_\_\_\_\_

$11^2 =$  \_\_\_\_\_

$12^2 =$  \_\_\_\_\_

$13^2 =$  \_\_\_\_\_

$14^2 =$  \_\_\_\_\_

$15^2 =$  \_\_\_\_\_

$16^2 =$  \_\_\_\_\_

$17^2 =$  \_\_\_\_\_

$18^2 =$  \_\_\_\_\_

$19^2 =$  \_\_\_\_\_

$20^2 =$  \_\_\_\_\_

$21^2 =$  \_\_\_\_\_

$22^2 =$  \_\_\_\_\_

$23^2 =$  \_\_\_\_\_

$24^2 =$  \_\_\_\_\_

$25^2 =$  \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

8<sup>th</sup> Grade

## Algebra and Applied Math Summer Assignment, Week VI

Go back to weeks I – V. You will have a quiz on the facts listed in large black boxes in your very first math class of 8<sup>th</sup> grade. Use the attached sheets to make 30 flashcards: one for each fact.

*If it looks like this, it belongs on a flashcard!*







