



Boston Preparatory Charter Public School

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Dear 6th 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 on these important facts.

You will also receive a set of flashcards. Cut these out from the sheets and keep them together with a binder clip or keep them in a zip lock bag. 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

Flashcard List

(pre-made flashcards attached or you may buy your own heavy duty cards and make your own)

Exponents Facts (8 cards)

Front of Card	On the Back
11^2	121
12^2	144
13^2	169
14^2	196

Front of Card	On the Back
15^2	225
16^2	256
17^2	289
18^2	324

Integer Rules (3 cards)

Front of Card	On the Back
Negative plus negative	Answer = Negative
Positive plus positive	Answer = Positive
Negative plus positive	Answer = Which number is bigger

Fraction Decimal Percent Facts (17 cards)

Front of Card	On the Back
$\frac{3}{2}$	1.5, 150%
$\frac{1}{3}$	0.3, $33\frac{1}{3}\%$
$\frac{2}{3}$	0.6, $66\frac{2}{3}\%$
$\frac{1}{4}$	0.25, 25%
$\frac{3}{4}$	0.75, 75%
$\frac{1}{5}$	0.2, 20%
$\frac{2}{5}$	0.4, 40%
$\frac{3}{5}$	0.6, 60%
$\frac{4}{5}$	0.8, 80%

Front of Card	On the Back
$\frac{1}{8}$	0.125, 12.5%
$\frac{3}{8}$	0.375, 37.5%
$\frac{5}{8}$	0.625, 62.5%
$\frac{7}{8}$	0.875, 87.5%
$\frac{1}{10}$	0.1, 10%
$\frac{3}{10}$	0.3, 30%
$\frac{7}{10}$	0.7, 70%
$\frac{9}{10}$	0.9, 90%

(FRONT 1)

$$17^2$$

$$16^2$$

$$15^2$$

$$14^2$$

$$11^2$$

$$\frac{1}{8}$$

$$\frac{3}{8}$$

$$\frac{5}{8}$$

$$\frac{7}{8}$$

$$\frac{1}{5}$$

$$\frac{2}{5}$$

$$\frac{3}{5}$$

$$\frac{4}{5}$$

$$\frac{1}{4}$$

$$\frac{3}{4}$$

$$\frac{1}{3}$$

$$\frac{2}{3}$$

$$\frac{1}{2}$$

$$12^2$$

$$13^2$$

196

225

256

289

0.625 or

0.375 or

0.125 or

121

62.5%

37.5%

12.5%

0.6 or

0.4 or

0.2 or

0.875

60%

40%

20%

87.5%

$0.\overline{3}$ or

0.75 or

0.25 or

0.8 or

$33\frac{1}{3}\%$

75%

25%

80%

169

144

0.5 or

$0.\overline{6}$ or

50%

$66\frac{2}{3}\%$

(FRONT 2)

$$18^2$$

$$\frac{3}{2}$$

$$\frac{1}{10}$$

$$\frac{3}{10}$$

$$\frac{7}{10}$$

$$\frac{9}{10}$$

Negative #
+
Negative #

=?

Positive #
+
Positive #

=?

Negative #
+
Positive #

=?

(BACK 2)

0.3 or

0.1 or

1.5 or

324

30%

10%

150%

0.9 or

0.7 or

90%

70%

Answer=
Whichever
number is
bigger

Answer=
Positive

Answer=
Negative

