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BROAD ROCK MIDDLE SCHOOL  
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Hello incoming 7th grader,

We hope that you enjoyed your 6th grade year, and are excited about the new adventures of seventh grade. Research shows that most students lose 2-3 months of grade level math equivalency over the summer. We would like to help you keep those math skills that you learned this past year. The attached packet provides a range of activities that review and expand on the math concepts you have learned in school this past year. The goal is to keep skills sharp, to be ready to move forward into the new school year.

The summer packet should be completed and turned in to your new math teacher by Friday, September 8th.

Have a wonderful summer! We look forward to seeing you in September.

BRMS Math Department

## Websites to Explore:

MobyMax.com - Most students have accounts and have used this program throughout fifth grade. (A great place to go to close learning gaps)

The Math Forum - The Math Forum includes a wonderful Student Center which allows students to choose resources and grade level material they find challenging or interesting. A help area called Ask Dr. Math, an Internet Math Hunt, and Math Tips & Tricks, which includes "BeatCalc", are just a few of the wonderful resources.

Cool Math For Kids - This website provides a variety of games that explore probability and "race the clock" which allows you to practice basic computation skills. There are also several IQ games and brain thinkers that foster your ability to think logically.

The Quiz - This website provides math activities listed by concept and skills for all grade levels.

Math Playground - An action-packed site for middle school students to practice math skills, play a logic game and have some fun.

Math Illuminations, National Council of Mathematics - Choose a grade range to access activities and games.

Figure this - This site is designed to challenge middle school students with real world challenges.

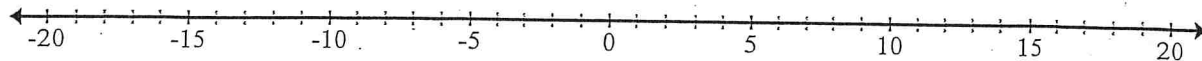
Kids.Gov - This website is the official kids' portal for the U.S. government. It is divided into educational subject like Arts, Math, and History.

## Great Math Books to Read:

- ☐ A Gebra Named Al by Windy Isdell
- ☐ Math Curse by Jon Scieszka
- ☐ Chasing Vermeer by Blue Balliett
- ☐ Sir Cumference & the Dragon of Pi by Cindy Neuschwander
- ☐ Sir Cumference & the First Roundtable by Cindy Neuschwander
- ☐ Sir Cumference & the Great Knight of Angleland by Cindy Neuschwander
- ☐ Sir Cumference & the Sword in the Cone by Cindy Neuschwander
- ☐ Number Devil: A Mathematical Adventure by Hans Magnus Enzensberger
- ☐ Counting on Frank by Rod Clement
- ☐ Guinness Book of Records by Time Inc

Circle the operation you are going to perform. Find the sum using a number line for the following addition exercises.

1.  $6 + (-3)$



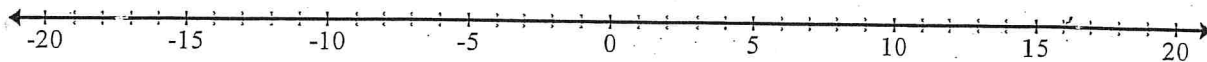
14.  $-3 + (-9)$



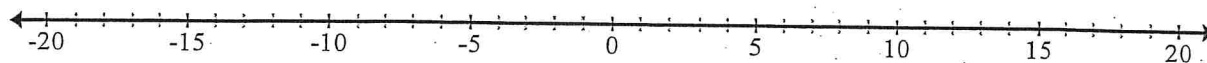
15.  $-4 + (-4)$



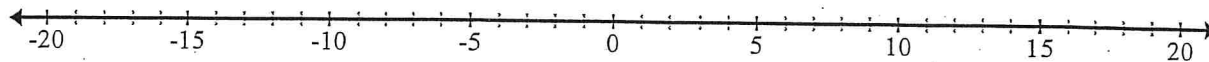
15.  $6 + (-6)$



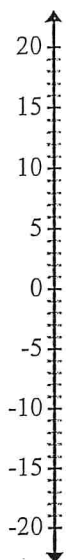
16.  $-9 + 8$



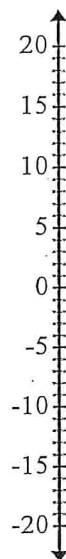
17.  $20 + (-8)$



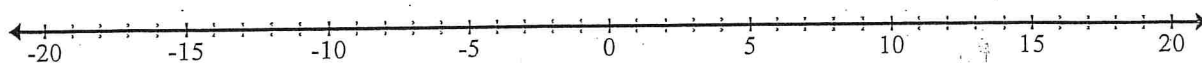
18.  $-12 + 14$



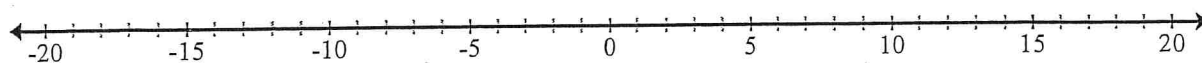
19.  $9 + (-25)$



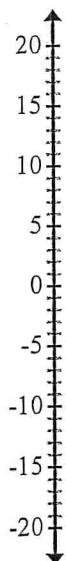
20.  $12 + (-9)$



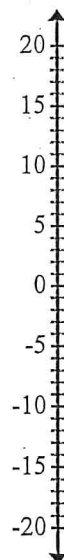
21.  $-8 + (-7)$



22.  $-7 + (-7)$



23.  $13 + (-13)$



# Integers & Absolute Value

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

Write an integer for each situation:

1. Spending \$45 \_\_\_\_\_

2. 140 feet above ground \_\_\_\_\_

3. A drop of  $9^{\circ}$  \_\_\_\_\_

4. A \$52 deposit \_\_\_\_\_

Evaluate each expression:

5.  $|-32| =$  \_\_\_\_\_

6.  $|105| =$  \_\_\_\_\_

7.  $|-6| =$  \_\_\_\_\_

8.  $|99| =$  \_\_\_\_\_

Place a  $<$  or  $>$  in the circle to complete each statement:

9.  $|14| \bigcirc -15$

10.  $-8 \bigcirc -3$

11.  $-12 \bigcirc -10$

12.  $-9 \bigcirc |-11|$

# Adding & Subtracting Integers Day 1

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

1.  $-3 + 12 =$  \_\_\_\_\_

2.  $-9 + 21 =$  \_\_\_\_\_

3.  $36 + 14 =$  \_\_\_\_\_

4.  $-2 + 43 =$  \_\_\_\_\_

5.  $-13 + 12 =$  \_\_\_\_\_

6.  $-25 + 9 =$  \_\_\_\_\_

7.  $-4 - 9 =$  \_\_\_\_\_

8.  $22 - 4 =$  \_\_\_\_\_

9.  $3 - 6 =$  \_\_\_\_\_

10.  $-7 - 3 =$  \_\_\_\_\_

11.  $-10 - 2 =$  \_\_\_\_\_

12.  $-19 - 26 =$  \_\_\_\_\_

## One-Step Equations

(Addition & Subtraction)

Date: WEEK 3

Translate each expression:

1. "Four more than a number is six." \_\_\_\_\_

2. "Six less than a number is  $-7$ ." \_\_\_\_\_

3. "11 plus a number is 20." \_\_\_\_\_

Solve each equation:

4.  $19 + x = 25$

5.  $r + 3 = 2$

6.  $b - 8 = 16$

7.  $-5 + y = 17$

## One-Step Equations

(Multiplication & Division)

Date:

Translate each expression:

1. "Half a number is thirty-two." \_\_\_\_\_

2. "Triple a number is 18." \_\_\_\_\_

3. "The quotient of a number and 7 is 4." \_\_\_\_\_

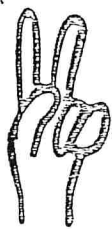
Solve each equation:

4.  $5m = 105$

5.  $-2c = -32$

6.  $\frac{x}{4} = -44$

7.  $\frac{s}{-3} = -21$



Name \_\_\_\_\_ Date \_\_\_\_\_

# Two-Minute Math

How many problems can you solve in two minutes?

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$





Score: \_\_\_\_\_

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

See how many of the following multiplication problems you can solve in 1 minute

$$\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$



Date: VVLLN O

## One-Step Equations

(Addition & Subtraction)

Translate each expression:

1. "Four more than a number is six." \_\_\_\_\_

2. "Six less than a number is  $-7$ ." \_\_\_\_\_

3. "11 plus a number is 20." \_\_\_\_\_

Solve each equation:

4.  $19 + x = 25$

5.  $r + 3 = 2$

6.  $b - 8 = 16$

7.  $-5 + y = 17$

Date:

## One-Step Equations

(Multiplication & Division)

Translate each expression:

1. "Half a number is thirty-two." \_\_\_\_\_

2. "Triple a number is 18." \_\_\_\_\_

3. "The quotient of a number and 7 is 4." \_\_\_\_\_

Solve each equation:

4.  $5m = 105$

5.  $-2c = -32$

6.  $\frac{x}{4} = -44$

7.  $\frac{s}{-3} = -21$

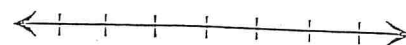
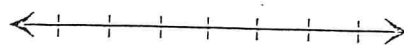
# Graphing Inequalities

Date: WEEK 5

Graph each inequality on the number line:

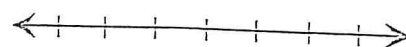
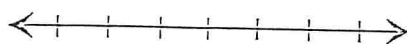
1.  $m \geq 3$

2.  $x < -8$



3.  $r \leq -6$

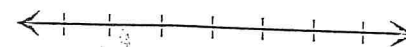
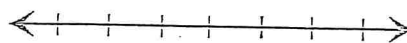
4.  $12 > b$



Translate each inequality, then graph:

5. "A number is at least ten."

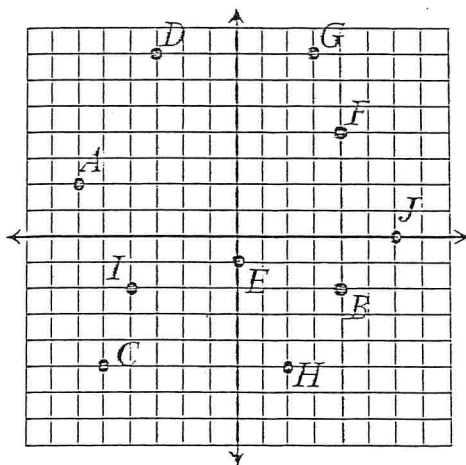
6. "A number is no more than -16."



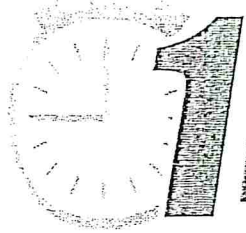
# The Coordinate Plane

Date:

Directions: Identify the ordered pair and location (quadrant or axis) for each point on the graph.



Point	Ordered Pair	Location
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		



# Minute Math

## Multiplication

WEEK 2

Score: \_\_\_\_\_

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

See how many of the following multiplication problems you can solve in 1 minute

$$\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

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

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

#2

## Know Your Place Value

**8,590,132**

What is the value of the digit in the...

tens place \_\_\_\_\_

hundreds place \_\_\_\_\_

thousands place \_\_\_\_\_

millions place \_\_\_\_\_

**748,614**

Write this number in expanded form and word form.

**$60,000 + 3,000 + 900 + 20 + 1$**

Write this number in standard form and word form.

**five hundred ninety two thousand,  
sixty four**

Write this number in standard form and expanded form.

Compare the numbers  
using the greater than, less than, and equal signs.

4,081 ○ 4,801

1,234,567 ○ 123,457

67,356 ○ 67,536

Round each number to the nearest thousand.

1,901 ≈ \_\_\_\_\_

7,255 ≈ \_\_\_\_\_

9,852 ≈ \_\_\_\_\_

28,054 ≈ \_\_\_\_\_

352,560 ≈ \_\_\_\_\_

