

Brandon Valley School District  
District Learning Plan  
April 13-17, 2020

Grade 6 Math



## Brandon Valley School District Distance Learning Plan

LESSON/UNIT: Number Sense

SUBJECT/GRADE: 6th Math

DATES: April 13th - 17th



What do students need to do?  <a href="#">Link to important video message</a>  <a href="#">Link to BV instructional video for week of April 13-17, 2020</a>	Monday (4/13): NO SCHOOL Tuesday (4/14): <ul style="list-style-type: none"> <li>● Students will review terminating and repeating decimals by completing the <b>Terminating and Repeating Decimals Worksheet</b>. Notes/examples are provided on the worksheet.</li> </ul> Wednesday (4/15): <ul style="list-style-type: none"> <li>● Students will review ordering rational numbers by completing the <b>Ordering Rational Numbers Worksheet</b>. Notes/examples are provided on the worksheet.</li> </ul> Thursday (4/16) and Friday (4/17): <ul style="list-style-type: none"> <li>● Students will be reviewing rational numbers by completing an ALEKS assignment titled <b>Rational Numbers</b>. The assignment can be accessed on <a href="https://my.mheducation.com/">https://my.mheducation.com/</a>. Students are required to achieve a 90% or higher. They will have multiple attempts to achieve this percentage. Work <b>does not</b> have to be submitted to the teacher. <b>It is due Sunday, April 19th at the end of the day.</b></li> </ul> <p>**If you do not have online access, please contact your teacher to receive a copy of the assignment via email or pick up.</p> Suggestions/Tips: <ul style="list-style-type: none"> <li>● Student progress will automatically save.</li> <li>● Use examples and notes provided Tuesday and Wednesday.</li> <li>● Explanations are available for each question utilizing the “eyeglasses” button on the right hand side of the ALEKS assignment</li> </ul>
What do students need to bring back to school?	<ol style="list-style-type: none"> <li>1. Terminating and Repeating Decimals Worksheet</li> <li>2. Ordering Rational Numbers Worksheet</li> <li>3. ALEKS assignment Rational Numbers (complete online until you achieve a 90% or submit paper copy if you do not have internet access)</li> </ol>
What standards do the lessons cover?	6.NS.7.C. Apply and extend previous understanding of numbers to the system of rational numbers. <ol style="list-style-type: none"> <li>a. Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.</li> <li>b. Write, interpret, and explain statements of order for rational numbers in real-world contexts.</li> </ol>
What materials do students need? What extra resources can students use?	Need: <ul style="list-style-type: none"> <li>● math textbook (online book is available at <a href="https://my.mheducation.com/">https://my.mheducation.com/</a>)</li> <li>● worksheets (see PDF documents below)</li> </ul> Extra: <ul style="list-style-type: none"> <li>● Multiplication Table                         <ul style="list-style-type: none"> <li>○ <a href="https://www.mathsisfun.com/tables.html">https://www.mathsisfun.com/tables.html</a></li> </ul> </li> </ul>

<p>What can students do if they finish early?</p>	<p>ALEKS topics- <a href="https://my.mheducation.com/">https://my.mheducation.com/</a></p> <ul style="list-style-type: none"> <li>*Continue working your topics</li> <li>*QuickTables (math fact practice)</li> <li>*assignments (if your teacher has assigned them)</li> <li>*Khan Academy- <a href="https://www.khanacademy.org/math">https://www.khanacademy.org/math</a></li> </ul> <p>If it's nice outside, GO OUTSIDE and be ACTIVE!</p>
<p>Who can we contact if we have questions?</p>	<p><b>Brandon Valley Intermediate School</b></p> <p><b>Principal</b>- Mr. Skibsted- <a href="mailto:Nick.Skibsted@k12.sd.us">Nick.Skibsted@k12.sd.us</a></p> <p><b>Assistant Principal</b>- Mr. Pearson- <a href="mailto:Rick.Pearson@k12.sd.us">Rick.Pearson@k12.sd.us</a></p> <p><b>Math Teachers:</b></p> <p>Ms. VanRoekel: <a href="mailto:Rebecca.VanRoekel@k12.sd.us">Rebecca.VanRoekel@k12.sd.us</a> (blue team)</p> <p>Ms. Lewis: <a href="mailto:Layne.Lewis@k12.sd.us">Layne.Lewis@k12.sd.us</a> (white team)</p> <p>Ms. Wiese: <a href="mailto:Stacey.Wiese@k12.sd.us">Stacey.Wiese@k12.sd.us</a> (red team)</p> <p>Mr. Kocer: <a href="mailto:Cassius.Kocer@k12.sd.us">Cassius.Kocer@k12.sd.us</a> (silver team)</p>
<p><b>Notes:</b> Worksheets do not have to be printed off. Problems can be answered on blank or lined paper. The math textbook can also be accessed online at <a href="https://my.mheducation.com/login">https://my.mheducation.com/login</a>.</p>	

***Instructional materials are posted below (if applicable)***

*Brandon Valley School District*

## Terminating and Repeating Decimals

**Rational numbers** are numbers that can be written as fractions. A **terminating decimal** is a decimal with a repeating digit of 0. A **repeating decimal** is the decimal form of a rational number. To write a fraction as a decimal divide the numerator by the denominator.

### Example 1

Write  $\frac{4}{9}$  as a decimal.

$$\begin{array}{r} 0.444\dots \\ 6 \overline{)4.000} \\ \underline{36} \\ 40 \\ \underline{36} \\ 40 \\ \underline{36} \\ 4 \end{array}$$

Notice that the remainder will never be zero.

You can use **bar notation** in  $0.\overline{4}$  to indicate that 4 repeats forever.

So,  $\frac{4}{9} = 0.\overline{4}$ .

### Example 2

Write  $-\frac{1}{8}$  as a decimal.

$$\begin{array}{r} 0.125 \\ 8 \overline{)1.000} \\ \underline{8} \\ 020 \\ \underline{16} \\ 40 \\ \underline{40} \\ 00 \end{array}$$

So,  $-\frac{1}{8} = -0.125$

## Terminating and Repeating Decimals Worksheet

Write each fraction as a decimal. Use bar notation if necessary.

1.  $\frac{8}{9}$

2.  $-\frac{2}{5}$

3.  $-\frac{5}{11}$

## Ordering Rational Numbers

Example:

Order these numbers from least to greatest.

$$\frac{15}{2}, 7\frac{5}{9}, 7.39, 7.398$$

When comparing rational numbers, convert all values to the same form. Decimal form is typically the most efficient form to use when ordering rational numbers.

$$\frac{15}{2} = 7.5$$

$$7\frac{5}{9} = 7.\overline{5}$$

$$7.39 = 7.39$$

$$7.398 = 7.398$$

Write each value so they have the same number of decimal place values.

$$7.500 \quad (\text{added zeros})$$

$$7.\overline{555} \quad (\text{extended the repeating } 5)$$

$$7.390 \quad (\text{added zeros})$$

$$7.398 \quad (\text{already written to the thousandths place})$$

All values have a whole number of 7 so use the decimal place values to determine the order from least to greatest.

$$7.390, 7.398, 7.500, 7.\overline{555}$$

When writing your final answer, each value should be written in the original form.

$$7.39, 7.398, \frac{15}{2}, 7\frac{5}{9}$$

# Ordering Rational Numbers Worksheet

Order these numbers from least to greatest.

1.  $3\frac{1}{3}$ , 3.3,  $3\frac{3}{4}$ , 3.5

2. 1.1,  $2\frac{1}{11}$ , 2,  $1\frac{1}{3}$

3.  $\frac{2}{3}$ , -0.6, 0.65,  $\frac{4}{5}$