



## Entering Grade V

### Summer Math Calendar: July

There are 25 "math boxes." We encourage you to complete **20 boxes per month**. **Color in each box** as it is done. Many of the games and activities can (and should) be played over and over--so feel free to substitute

Monday	Tuesday	Wednesday	Thursday	Friday
<p>What number am I? The digits in my number are 3, 8, 4, 1. I am odd. I have 4 in my hundreds place. I am less than 2,000.</p>	<p>The answer is 7.25. What is the question?</p> <p>What kind of a real world word problem could possibly require that kind of an answer?</p>	<p>Write a story problem to go with the following number sentence:</p> <p><math>19 \times 17 = \underline{\hspace{2cm}}</math></p>	<p>What number is 10 more than 4,492? What number is 300 more than 4,830? What number is 500 more than 4,654?</p>	<p>Kate's garden is in the shape of a square. It has a perimeter of 32 feet. What is the area of her garden?</p>
<p>Estimate the population of:</p> <ul style="list-style-type: none"> <li>-- The world</li> <li>-- The USA</li> <li>-- Massachusetts</li> <li>-- Boston</li> </ul> <p>Look up the real populations. How close were you?</p>	<p>Play <b>Product Game</b> at <a href="http://illuminations.nctm.org/Activity.aspx?id=4213">http://illuminations.nctm.org/Activity.aspx?id=4213</a></p>	<p>Samuel and his friends drank 3 quarts of water at the playground. How many more cups will they need to drink to make a gallon? How many ounces is that?</p>	<p>Write the following as decimals:</p> <p><math>6 \frac{3}{10}</math></p> <p><math>17 \frac{78}{100}</math></p> <p><math>62 \frac{1}{2}</math></p> <p><math>1 \frac{3}{4}</math></p>	<p>What are the next two numbers in this sequence:</p> <p>2, 5, 8, 11 ....</p> <p>Can you come up with a rule to describe this sequence?</p>
<p>Would you rather be given a 1 foot tall stack of nickels or a 1 foot line of quarters laid end to end? Estimate the total value of each.</p>	<p>Put these numbers in order from least to greatest.</p> <p><math>\frac{1}{3}</math>   0.5   .97</p> <p><math>\frac{3}{4}</math>   0.01   0.1</p> <p><math>\%</math>   <math>\frac{2}{20}</math>   <math>\%</math></p>	<p>Draw a symmetrical design.</p>	<p>Find a cool graph from some news source. Explain what it means to an adult.</p>	<p>Vowels are worth \$40 each and consonants are worth \$50 each. Can you write a word worth exactly \$200? \$600?</p>
<p>Write a division story problem with the answer of 225.</p>	<p>Find the area of the most interesting piece of paper in your house.</p>	<p>Measure the perimeter of two different windows in your home. What is the difference in the perimeters?</p>	<p>Count to 10, six different ways (this one takes some thought).</p>	<p>The answer is 354. What is the problem.? Write a story problem with the answer of 354.</p>
<p>Play <b>Fraction Game</b> at <a href="http://illuminations.nctm.org/Activity.aspx?id=4148">http://illuminations.nctm.org/Activity.aspx?id=4148</a></p> <p>How many moves did it take you to get all the red markers to the right side?</p>	<p>Have a scavenger hunt. Find real world examples of parallel lines (ex. railroad tracks)</p>	<p>Play <b>Concentration</b> at <a href="http://illuminations.nctm.org/Activity.aspx?id=3563">http://illuminations.nctm.org/Activity.aspx?id=3563</a></p> <p>Choose: fractions, face down</p>	<p>Write a word problem whose answer is 154. Have someone solve the problem.</p>	<p>Write down the biggest number you can find in a newspaper. Read it out loud.</p>



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<p>Count to 20 by 1/2's.</p> <p>Count to 10 by 1/4's.</p> <p>Which takes longer?</p>	<p>What number is 10 more than 7,182?</p> <p>What number is 300 more than 7,777?</p> <p>What number is 500 more than 7,992?</p>	<p>Write down the numbers you see on two license plates.</p> <p>Create 4 math problems using these numbers.</p>	<p>Find the area of your bedroom floor.</p> <p>What room in your house could have twice the area of your bedroom?</p> <p>Half the area of your bedroom?</p>	<p>Draw a design with at least 2 lines of symmetry</p>
<p>Look at the weather in the paper across across the nation.</p> <p>Look at the highest temperature and the lowest temperature.</p> <p>What is the difference between them?</p>	<p>Estimate the distance from your house to:</p> <p>New York Los Angeles Istanbul</p> <p>Look up the real distances. How close were you.</p>	<p>What are the next two numbers in this sequence:</p> <p>1, 4, 9, 16, 25 .....</p>	<p>Write down the prices of 5 cars you find in the newspaper.</p> <p>Order the prices from least to greatest.</p> <p>Round the prices to the nearest thousand.</p>	<p>Use 8 straight lines. How can you make 4 triangles and 2 squares?</p>
<p>Vowels are worth \$300 each and consonants are worth \$700 each.</p> <p>Can you write a word worth exactly \$2000? \$6000?</p>	<p>Make a dollar with 50 coins. What coins did you use? How many of each?</p>	<p>List some capital letters (E, F, ...) that have one pair of parallel lines. Are there any that have two pair of parallel lines?</p>	<p>Play <b>Pan Balances</b> at <a href="https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Pan-Balance---Shapes/">https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Pan-Balance---Shapes/</a> It will challenge your thinking about shapes and weight.</p>	<p>It is circle day. Find circles wherever you can. What is the biggest circle you can find. What is its diameter?</p>
<p>Play <b>The Fraction Game</b> at <a href="http://illuminations.nctm.org/Activity.aspx?id=4148">http://illuminations.nctm.org/Activity.aspx?id=4148</a></p> <p>How many moves did it take you to get all the red markers to the right side?</p>	<p>Place a plastic bowl on the floor and stand 20 steps away. Toss a coin in the bowl and record how many times it lands inside it. Express this as a fraction. Repeat.</p>	<p>This one takes some research. Which of these cannot be a radio station in the US? 97.7 88.9 101.4 Why?</p>	<p>What time is it right now? What time is it in Oregon? What time is it in England? What time is it in New Zealand?</p>	<p>Play <b>The Product Game</b> at <a href="http://illuminations.nctm.org/Activity.aspx?id=4213">http://illuminations.nctm.org/Activity.aspx?id=4213</a></p>
<p>Find a cool graph from some news source.</p> <p>Explain what it measures.</p>	<p>The answer is %.</p> <p>What is the question?</p>	<p>Pick a two-digit number, multiply it by 10 and subtract the original number. Is this number divisible by 9? Why? Try it 4 more times!</p>	<p>How many days old are you today?</p>	<p><b>YOU DID IT! Please bring your calendars and any other cool math you did on the first day of school!</b></p>