

Where's the Math? July



Confident learners,
caring citizens.

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|---|---|---|--|--|--|--|
| <p>Math can engage families in lots of great math conversations. Here are some conversation starters to get you thinking like mathematicians.</p> | | <p>For the month of July record the weather in the box at the top right corner of each day. Use letters or symbols to represent the weather. How many days were sunny, cloudy or rainy? What would a line graph, bar graph or pictograph look like? Did you try to predict the weather? What was the likelihood that your predictions were correct?</p> | | | <p>1 Canada Day! <input type="checkbox"/></p> <p>How many red maple leaves can you count today? </p> | |
| <p>2 <input type="checkbox"/></p> <p>How many driveways have a stone pattern? What is the pattern?</p> | <p>3 <input type="checkbox"/></p> <p>Make a tally of the number and colour of bikes you see today. What is the most popular colour?</p> | <p>4 <input type="checkbox"/></p> <p>Where do you see triangles today? What kind of triangles did you see?</p> | <p>5 <input type="checkbox"/></p> <p>Can you see patterns in the eyes of your family?</p> | <p>6 <input type="checkbox"/></p> <p>Where did you see examples of symmetry today?</p> | <p>7 <input type="checkbox"/></p> <p>Where do you see 3-D cubes, cylinders, spheres and prisms?</p> | <p>8 <input type="checkbox"/></p> <p>How many ways can you make a sound pattern? (i.e. clapping/stomping)</p> |
| <p>9 <input type="checkbox"/></p> <p>Where in nature can you see patterns, symmetry, shapes?</p> | <p>10 <input type="checkbox"/></p> <p>Where is it likely you would see ducks? How do you know?</p> | <p>11 <input type="checkbox"/></p> <p>Numbers are everywhere! What numbers did you see today and where?</p> | <p>12 <input type="checkbox"/></p> <p>How many minutes did you spend outside today? How many seconds?</p> | <p>13 <input type="checkbox"/></p> <p>Looking at the clouds in the sky can you see faces, animals or shapes?</p> | <p>14 <input type="checkbox"/></p> <p>Sort the shoes in your house. How many different ways can you sort them?</p> | <p>15 <input type="checkbox"/></p> <p>Draw a map of your bedroom, house or neighbourhood.</p> |
| <p>16 <input type="checkbox"/></p> <p>With your family play 'I spy'. Make it fun and challenging.</p> | <p>17 <input type="checkbox"/></p> <p>Where do you see the longest object? Where is the shortest object?</p> | <p>18 <input type="checkbox"/></p> <p>Compare the mass/weight of two objects. Find objects heavier and lighter.</p> | <p>19 <input type="checkbox"/></p> <p>How fast does an ice cube melt in the sun or in the shade?</p> | <p>20 <input type="checkbox"/></p> <p>Guess first then see how many teaspoons it takes to fill a glass with water?</p> | <p>21 <input type="checkbox"/></p> <p>What is the greatest number of petals you can count on a flower?</p> | <p>22 <input type="checkbox"/></p> <p>How small can you fold a piece of paper? When you open it what do you see?</p> |
| <p>23 <input type="checkbox"/></p> <p>Where in your house can you take the smallest walk between rooms?</p> | <p>24 <input type="checkbox"/></p> <p>Where can you find buttons? How are buttons different/same?</p> | <p>25 <input type="checkbox"/></p> <p>Where is it unlikely to find a polar bear, a zebra, a horse, a bumble bee, etc.</p> | <p>26 <input type="checkbox"/></p> <p>Where can you find objects to count by 2's, 3's, or 5's. Think of other ways to count.</p> | <p>27 <input type="checkbox"/></p> <p>When you peel an orange, how many people can get equal pieces?</p> | <p>28 <input type="checkbox"/></p> <p>Are shoe laces the same length for different sized shoes?</p> | <p>29 <input type="checkbox"/></p> <p>Where are the shadows? (biggest, smallest, widest, skinniest, etc.)</p> |
| <p>30 Letter/Numbers <input type="checkbox"/></p> <p>How many different ways can you make an 8 character password?</p> | <p>31 <input type="checkbox"/></p> <p>Where would you use a ruler or meter stick to measure objects at home?</p> | | | <p>Now that you have practiced collecting weather data like a meteorologist you can try it again in August. This time try to see if you can forecast the weather. Is it enough to know when a day is sunny, cloudy or rainy to be able to predict the weather? Why or why not? Research what a meteorologist does to forecast the weather.</p> | | |

Where's the Math? August

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|---|--|---|--|--|---|---|
|  | | 1  | 2  | 3  | 4  | 5  |
| | | Guess how many pencils you could stand up around a can or jar. Try it to see if your guess was close. | How many steps can you take between fire hydrants in your neighbourhood? Are the number of steps the same each time? | Look at the house numbers on your street. What do you notice? What do you wonder? | What do you notice about the needles on a pine tree? Are they all the same? Is there a pattern? | When you look at the spokes of a bicycle are they the same for a big bike and small bike? |
| 6  | 7 TIME  | 8  | 9  | 10  | 11  | 12  |
| Do all license plates have the same amount of letters and numbers? Is it the same for cars and trucks? | Where in your house can you find a clock or watch? Are the clocks the same? Are the watches the same? | On your street, how many cars can you count? How many trucks? How many motorbikes? | How many minutes are advertisements on tv? Are they all the same number of minutes? | What patterns can you find in the grocery store on the shelves and in the aisles? | What combinations of numbers can you make with a calculator? What do you notice? | Make a map our your neighbourhood block. Where is north, south, east and west? |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| When might you eat $\frac{1}{2}$ an apple? What about $\frac{1}{4}$ or $\frac{3}{4}$? Where can you see other fractions be of the foods you like to eat, like pizza? | Look in flyers, newspaper or magazines and cut out numbers 1-100. Put them in order. Now try 200, 300... | When you get a box ready for the recycle bin, what happens to the shape of the box when it's flattened? | For the next week, keep track of all the minutes you play outside. What do you notice? | Look for grocery coupons in the flyer. How much money could be saved with 2,3,4 or 5 coupons? | What are the low and high temperatures for today? Compare this with tomorrow? What do you | When you watch a baseball game what is the likelihood that the home team will win? How do you know? |
| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| If my team lost 5 games out of 5, how likely is it that we will win the next game? Why or why not? | If a basketball team has 68 regular basket points how many basket were made? | When you skip how much do you jump? How fast can you jump and for how long? | How many Saturdays can you count in this summer? How many weeks, days, nights are there? | Draw all the stop signs you see in your neighbourhood. Cut out the drawings to make a design. Colour it too! | Can all doors open to a 90 degree angle? What other angles can you make when you open a door? | If the answer is 45, what different math questions can you make up? |
| 27  | 28  | 29  | 30  | 31  |  | |
| Show all the ways you can use math facts, objects or finger counting to make 50 | How many steps does it take to find the perimeter of the outside of your house? How many meters might that be? | How much rain can you collect in a container on a rainy day? Guess first then measure! | Look at 5 different buildings and make a tally of the shapes you see. Which shapes do you see more of? Why is that? | Can you play 'I spy' with numbers around your house? Give it a try? | Math Fun! <i>Have fun and learn something new this summer!</i> | |