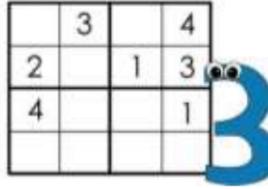
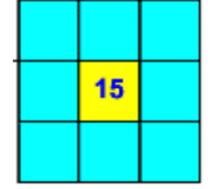
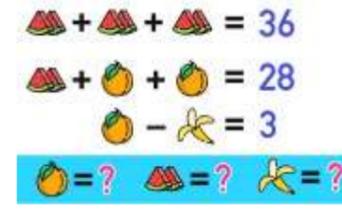
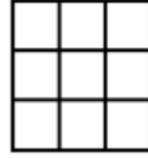
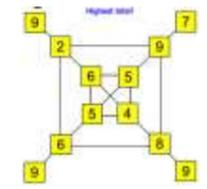
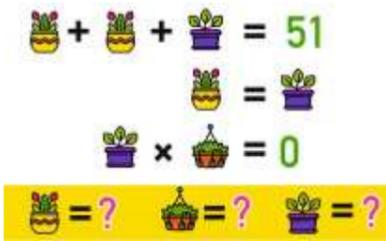
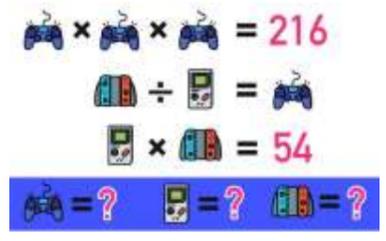
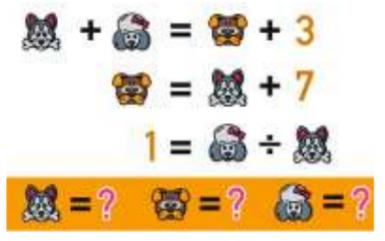
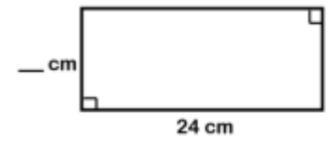
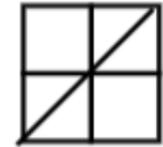


Make your summer mathematical! Complete the following daily challenges yourself with the following problems with a family member. Return your completed answer sheet to the office by Friday 5th February.  
A teacher will be available to help you in the school library on **Tuesday 19th and 26th January 10am to 12pm.**

December 2020/ January 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>27 Sudoku - every row, column and mini-grid must have the numbers 1,2,3,4. Solve it!</p> 	<p>28 Write an equation to make the number "24" using all the numbers and +, -, x and ÷.</p> 	<p>29 Put the numbers 1- 8 in so that each side adds up to 15.</p> 	<p>30</p> 	<p>31 Place each of the numbers from 5 to 13 in one of the squares so that the sum of each row, column and diagonal is the same.</p> 	<p>1 Add these fractions up!</p> <p>What is <math>\frac{2}{3} + \frac{4}{9}</math> ?</p> <p>What is <math>\frac{5}{9} + \frac{4}{7}</math> ?</p>	<p>2 PS5 is on sale for 25% off at JB Hi-Fi from \$648. How much will you pay?</p> 
<p>3 There are three baskets, a brown one, a red one and a pink one, holding a total of ten eggs. The Brown basket has one more egg in it than the Red basket. The Red basket has three fewer eggs than the Pink basket. How many eggs are in each basket?</p>	<p>4 In this maze there are numbers in each of the cells. You go through adding all the numbers that you pass. You may not go through any cell more than once. Can you find a way through in which the numbers add to exactly 100?</p>	<p>5 A pool is being filled with water at a steady rate of 50L per hour. If the water is turned on at 10:00am, how much water will be in the pool at 4:00pm?</p>	<p>6 I pour twelve equal glasses of milk from a three-litre jug. How many mL will be in each glass if I have emptied the jug? Answer in mL.</p>	<p>7 There were 30 soccer balls in the P/E shed. If Mrs Mills took 7 more than half as many, how many soccer balls did she take?</p>	<p>8 Anna has saved \$570 for her vacation. Her travel costs will be \$245 and her accommodation is \$190. How much will she have left for food and spending money?</p>	<p>9 Ryan and Tom live 32km apart. When they cycled to meet for a picnic lunch, Tom had cycled 4km further than Ryan. How many total kilometres will Tom have cycled when he gets home again?</p>
<p>10 Pita was five when he broke his ankle. Twenty six years later, in 1998, he was selected to be a Tall Black. When was Pita born?</p>	<p>11 Start anywhere and collect five numbers by following the paths - no jumping or going back over a path twice! What is the highest total you can make?</p> 	<p>12</p> 	<p>13</p> 	<p>14</p> 	<p>15</p> 	<p>16 Liam hires a bike. He has to return it by 3pm. The time is 2:25pm. How many minutes does he have left?</p> 
<p>17 These are the first 5 triangle numbers: 1,3,6,10,15.... Write the next two triangle numbers.</p>	<p>18 If the counting numbers are written in English thus: one, two, three, four,.... In which number does the 10th 'e' appear?</p>	<p>19 A child's farmyard set includes 20 fences that are 2cm long. Find the area of the rectangle that has the <b>smallest area</b> using all those 2cm fences.</p> 	<p>20 Every year that is exactly divisible by four is a leap year. Which of these was a leap year?</p> <p>1946 or 1948?</p>	<p>21</p>  <p>The perimeter of this rectangle is 64cm. What is the length of the missing side?</p>	<p>22 Add together the number of squares and triangles:</p> 	<p>23 Abigail, Barbara, Constance, Diana and Erica want to play each other at badminton. How many games will they play?</p>
<p>24 Two consecutive odd numbers are added together to give a sum of 52. What are the two numbers?</p>	<p>25 Around a large circular table the chairs are at equal distance from one another. Chair 11 is opposite chair 4. How many chairs are there around the table?</p>	<p>26 Air NZ 744 leaves Wellington at 16:30 and takes 5 <math>\frac{3}{4}</math> hours on its journey to Tonga, what time will it arrive?</p>	<p>27</p> $8 \times (9 - 4) \div 5 =$	<p>28 Spot weighs 350 grams less than Tip. If Spot weighs 4.79 kg, how much does Tip weigh?</p>	<p>29 Write 2021 in Roman numerals.</p>	<p>30 If 60% of a number is 42, what is 50% of the same number?</p>