

Blockhouse Bay Intermediate Summer Maths Challenge 2022/2023 - QUESTION SHEET

Make your Summer mathematical! Complete the following daily challenges yourself or with a family member. Return your completed answer sheet to the office by Friday the 3rd of February. Teachers will be available to help you in the school library on Wednesday the 25th of January, 9am to 12pm. To earn a red star you must get at least 80% of the questions correct.

December 2022 / January 2023								
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
26 Sudoku - every row, column and mini-grid must have the numbers 1, 2, 3, and 4. Solve it!	27 If the yellow tile is 1 square unit, what is the total area of this shape?	28 Put the numbers 1-8 in the grid below so that each side adds up to 15. 15	29 If the large square represents the whole, what fraction does the yellow area represent?	 30 If the total is 7, what number is hidden under the splat? 7 	31 What is the range of students' heights? Heights of students $\begin{array}{r rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1 PS5 is on sale for 25% off at JB Hi-Fi from \$648. How much will you pay?		
2 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?	3 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?	4 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?	5	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.	7 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?	8 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?		
9 Add these fractions up! What is $\frac{2}{3} + \frac{4}{9}$? What is $\frac{5}{9} + \frac{4}{7}$?	$10 \\ \cancel{3} + \cancel{3} + \cancel{3} = 36 \\ \cancel{3} + \cancel{3} + \cancel{3} = 28 \\ \cancel{3} - \cancel{3} = 3 \\ \cancel{3} = ? \qquad $	11 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?	12 If 60% of a number is 42, what is 50% of the same number?	13 Air NZ 744 leaves Wellington at 16:30 and takes 5 % hours on its journey to Tonga. What time will it arrive?	14 $\Rightarrow + \Rightarrow + \Rightarrow = 58$ $1 \times \Rightarrow = 32$ $\Rightarrow \Rightarrow = 64$ $\Rightarrow = ? \Rightarrow = ?$	15 Liam hires a bike. He has to return it by 3pm. The time is 2:25pm. How many minutes does he have left?		
16 These are the first 5 triangle numbers: 1, 3, 6, 10, 15 Write the next two triangle numbers. 1 3 6 10 15	17 If the counting numbers are written in English thus: one, two, three, four, In which number does the 10th 'e' appear?	18 A child's farm yard set includes 20 fences that are 2cm long. Find the area of the rectangle that has the smallest area using all those 2cm fences.	19 Every year that is exactly divisible by four is a leap year. Which of these was a leap year? 1946 or 1948?	20 cm 24 cm The perimeter of this rectangle is 64cm. What is the length of the missing side?	21 Add together the number of squares and triangles:	22 Abigail, Barbara, Constance, Diana and Erica want to play each other at badminton. How many games will they play?		
23 Two consecutive odd numbers are added together to give a sum of 52. What are the two numbers?	24 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?	25 $\overrightarrow{\times} \times \overrightarrow{\times} \times \overrightarrow{\leftarrow} = 216$ $\overrightarrow{\times} \div \overrightarrow{\times} = \overrightarrow{\leftarrow}$ $\overrightarrow{\times} \times \overrightarrow{\times} = 54$ $\overrightarrow{\times} = ? \qquad \overrightarrow{\times} = ? \qquad \overrightarrow{\times} = ?$	26 8 × (9 - 4) ÷ 5 =	27 Spot weighs 350 grams less than Tip. If Spot weighs 4.79 kg, how much does Tip weigh?	28 Write 2021 in Roman numerals.	29 (3) + (3) = (2) + 3 (2) = (3) + 7 $1 = (3) \div (3)$ (3) = ? (3) = ?		



Blockhouse Bay Intermediate Summer Maths Challenge 2022/2023 - ANSWER SHEET									
Name:		Room:	Parent Signature:						
			December 2022 / January 2023						
Monday	Tuesday		Wednesday	Thursday	Friday				
26 3 4 2 1 3 0 4 1 1	27	28	15 15	29	30	31			
2	3	4		5	6	7			
9	10	11		12	13	14			
16	17	18		19	20	21			
23	24	25		26	27	28			

Saturday	Sunday
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	8
	15
	22
	29