Springvale Maths Trail

Part B

Use your answers from Part A to answer these questions.

1B). How many hours is this? Can you work out how many minutes this is?

2B). Can you convert this into cm? What about mm?

3B). This triangle has a special name because two sides are the same length and two angles are the same size. What type of triangle is it?

4B). Can you list all the factors of this number? Remember factors divide exactly into a number without any remainders. You should be able to find 5 factors.

5B). When we multiply two numbers together we find their product. What is the product of these two numbers?

6B). If these were the lengths of the sides on a square what would be the area of the square?

7B). Leap years are divisible by 4. Was this year a leap year?

8B). Can you change this fraction to have a denominator of 100? What would this be as a percentage?

9B). Can you round this number to the nearest 10?

10B). Can you round this number to the nearest 100?

11B). Can you round this number to the nearest 10,000?

12B). By finding ¼ of this number first work out what ¾ of this number is.

13B). How many days are there in this month?

14B). Add up all the digits in this number and then divide it by 2. This is how many cards are in each suit in a deck of cards. Can you work out how many cards there are altogether in a deck of cards?

(e.g. for the number 123 the digits are 1, 2, 3 adding them together would give 6)

15B). Divide this number by 3.

16B). Find the difference (subtraction) between these two numbers.

17B). Can you multiply this year by 6?

18B). How many years ago was this?

19B). Reverse the digits of the year and add the new number to the original number.

(e.g. If the year was 1234 the reverse would be 4321 and then add together 1234 and 4321)

20B). Reverse the digits of this year and subtract the smaller number from the larger number.

21B). Look at the last digit in this year. What is the name of a shape with this number of sides?

22B). How many seconds is it open for each day?

23B). A cube number is when you multiply a number by itself 3 times. 2 cubed is 2 x 2 x 2 = 8

Can you cube the number of castles?

24B). Is this number a multiple of 5? Can you explain how you know?

25B). How many ¼ are there in this number?

26B). Looking just at the last two digits of this year. Can you write this number using Roman Numerals?

27B). Take this number and multiply it by 4, then the answer by 5 and then again by 6. What do you get? You should get the number of degrees in a circle!

28B). What is the name of a shape with this number of sides?

29B). Can you multiply this number by 100? Can you divide this number by 100?

30B). Divide the top number by the bottom number, what do you get?

31B). If I post a letter in here on a Friday at 8:30pm how long will my letter be sat in the postbox for?

32B). Multiply this number by itself, what do you get? This is called a square number.

33B). What would I need to add to this number to give the number of degrees in a right angle?

34B). This is a special number it is the only even prime number. Can you list all the prime numbers less than 20? (There are eight altogether.)

35B). Split this number into 4 digits and multiply the 4 digits together.

36B). How many lines of symmetry does the letter X have?

37B). Work out half of this number?

38B). Take this number and subtract 5, then multiply by 3 and then add 7. What did you get? What type of number is this? (Hint: Look back at question 34 if you’ve forgotten.)

39B). Write Springvale in capital letters, how many have at least one line of symmetry?

40B). Take the number of bollards and add 5, then multiply by 2, next subtract 10 and the divide by 2. What do you notice? Can you explain why that happened?

41B). Take the last three digits of this number and multiply them together to make a cube number. (e.g. if the last three digits were 555 work out 5 x 5 x 5 = 125 and 125 is a cube number.)

42B). Can you write this time using the 24 hour clock?