

Student Name: _____
Please write your name on *every* page.

1 Section A

A1

If the last time that the Nine Chapters contest was held was in 2019, and the current edition (right now) is being held in 2022, how many years has it been since the last Nine Chapters contest was held?

Answer to A1: _____

A2

A piano has 88 keys on it, each of which is either black or white. If it has 52 white keys, how many black keys does it have?

Answer to A2: _____

A3

A die contains the numbers from 1 to 6 on its faces. What is the sum of the numbers on the die?

Answer to A3: _____

A4

Rachelle wants to make s'mores. Each s'more consists of two crackers, a piece of chocolate and a marshmallow. If Rachelle has 23 crackers, 13 pieces of chocolate, and 15 marshmallows, what is the maximum number of s'mores she can make?

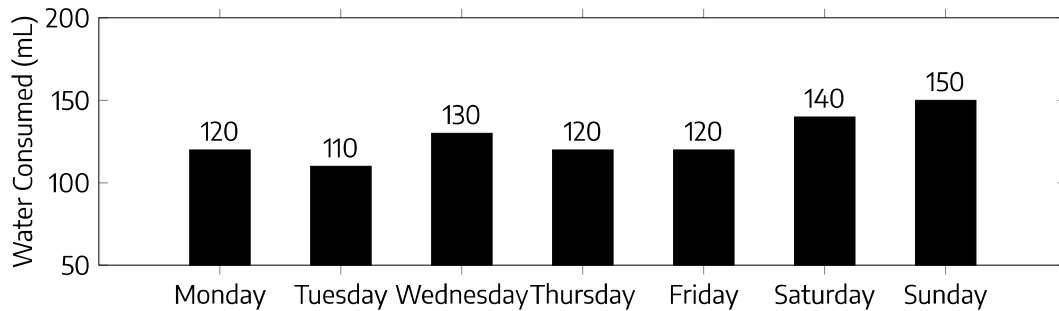
Answer to A4: _____

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A5

A pet cat named Bertie has his water-drinking habits tracked over the course of a week, as shown in the graph below. The *range* of a set of data is the difference between the highest and lowest entries. What is the range of Bertie’s water consumption (in mL) for the week?



Answer to A5: _____

A6

A chef is cooking pierogis. The recipe calls for the chef to cook one side of the pierogis for 5 minutes, then flip them, cook for 10 minutes, flip them once more, and cook for 3 more minutes. If the chef cooks two batches of pierogis, one after the other, how long does it take?

Answer to A6: _____

A7

If the letters in the word ADDITION are sorted into alphabetical order, how many remain in the same place?

Answer to A7: _____

A8

In 2022 the first Monday in December is on the 5th. If December has 31 days, on what day is the last Monday in December?

Answer to A8: _____