

Halloween Estimathon

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Problem 1.

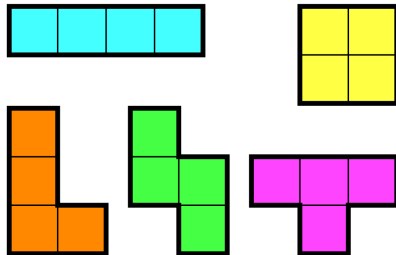
What is $10.1^3 - 10^3$?

Problem 2.

What percent of all the words from the text dataset by Google Books Ngram Viewer is the word “the”?

Problem 3.

There are five Tetris pieces with four cells up to rotation.



How many Tetris pieces with six cells are there?

Problem 4.

What is the number of followers Lady Gaga has on Instagram?

Problem 5.

What is the minimum of the angles between the diagonals in a regular 100-gon (in degrees)?

Problem 6.

What is the number of words in all the seven Harry Potter books together?

Problem 7.

One tosses a fair coin 100 times. What is the probability (in percents) that it lands tails up exactly 50 times?

Problem 8.

What is the 65+ population of the Earth?

Problem 9.

What is the number of ways of making change for 50 cents using the 1, 2, 5, and 10 cents coins?

Problem 10.

What is the number of ORMC instructors?

Problem 11.

Space hamsters live for 10 years. If the spaceship with space hamsters flies to us at the speed of $0.9c$, what is the lifetime of a hamster from our point of view?

Problem 12.

What is the cost of the cheapest stew pot on Walmart website after discount applied?

Problem 13.

What is the sum of the answers to the first 12 problems?