

# SCHOLASTIC (familial) MATH LEAGUE 2019/2020

## Math problems for primary school grades 5 and 6

### Set 1

/ deadline *October 16, 2019* /

#### Problem 1

Is it possible to change 1 [Polish zloty](#) (basic monetary unit) into coins of 2 [grosze](#) and 5 [grosze](#) such that you get 30 coins altogether?

Link to Polish coins info: [https://en.wikipedia.org/wiki/Polish\\_coins\\_and\\_banknotes](https://en.wikipedia.org/wiki/Polish_coins_and_banknotes)

#### Problem 2

Put arithmetic operators and/or parentheses between the given numbers in order to make true equations:

$$1\ 2 = 2$$

$$1\ 2\ 3 = 2$$

$$1\ 2\ 3\ 4 = 2$$

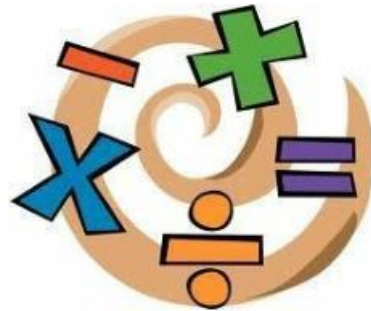
$$1\ 2\ 3\ 4\ 5 = 2$$

$$1\ 2\ 3\ 4\ 5\ 6 = 2$$

$$1\ 2\ 3\ 4\ 5\ 6\ 7 = 2$$

$$1\ 2\ 3\ 4\ 5\ 6\ 7\ 8 = 2$$

$$1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9 = 2$$



#### Problem 3

Is there such a number that is twice the sum of its digits? Is there only one such number?

#### Zadanie 4

Five boys weighed themselves in pairs with each other. The obtained results of these weighings are as follows: 90 kg, 92 kg, 93 kg, 94 kg, 95 kg, 96 kg, 97 kg, 98 kg, 100 kg, 101 kg. What is the total weight of the five boys?

#### Problem 5

A watermelon is 2 kilograms heavier than  $\frac{1}{3}$  of its total weight. How much does the watermelon weigh?