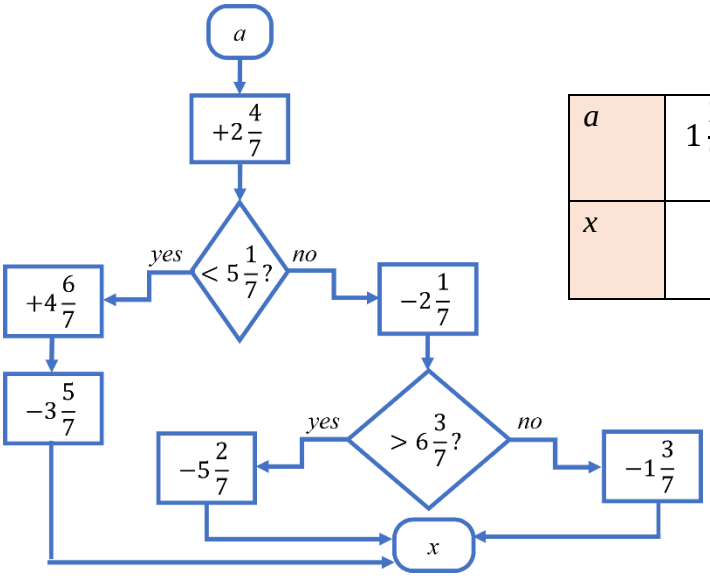
Math 5b, homework 18.

1. Fill the table using algorithm on the picture.



a	$1\frac{2}{7}$	$2\frac{3}{7}$	$2\frac{4}{7}$	$3\frac{1}{7}$	$4\frac{6}{7}$	$5\frac{5}{7}$	$10\frac{3}{7}$
x							

2. How many grams of jam with 50 % sugar should be added to 100 g of jam with 30% sugar, to get 35% sugar jam.

3. Write an algorithm to add two 3-digit naturel numbers by column addition.

4. Mary told Robert to multiply a number by 4 and add 15 to the result, but Robert multiplied the number by 15 and then added 4. However, the answer was correct. What was the number?

5. Solve the equation:

$$2 \cdot \left(0.3x - \frac{2}{9}\right) - \left(-1\frac{1}{9} + \frac{2}{3}x\right) = \frac{x}{5}$$

6. Which of the numbers is larger: $1 - 2 + 3 - 4 + 5 - \ldots + 99 - 100$ or $1 + 2 - 3 + 4 - 5 + 6 - \ldots - 99 + 100$?

7. Simplify the following fractions:

$\frac{135 + 315}{15}$, $\frac{49 + 84}{77}$, $\frac{am + 5a}{m + 5}$,

$\frac{252 + 168}{132 - 12}$, $\frac{5kx - 5xa}{k - a}$, $\frac{35b}{7ba + 7bx}$,