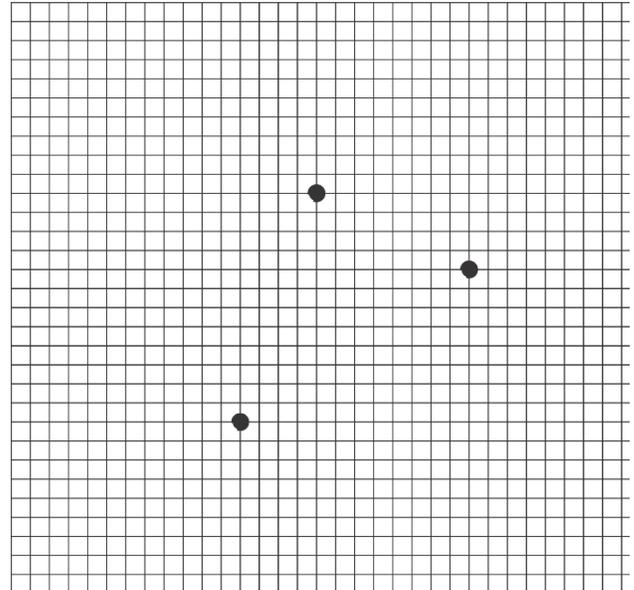


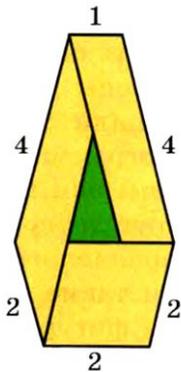
Math 5b, homework 19.

1. Cathie wrote some numbers at the vertices of the cube. Then she calculated the sums of numbers on the left, on the right, and on the top faces. It got values **14, 22, and 18** respectively. What is the sum of the numbers on the lower face?

2. Points A, B, and C are vertices of a parallelogram. Draw all possible parallelograms. (Copy picture to your notebook)



3. All quadrilaterals on the picture are parallelograms. What are the lengths of the sides of green triangle?



4. What is bigger:

a. $\frac{1}{2} + \frac{1}{5}$ or $\frac{1}{3} + \frac{1}{4}$;

b. $\frac{1}{2} - \frac{1}{3}$ or $\frac{1}{4} - \frac{1}{5}$

c. $\frac{1}{120} + \frac{1}{123}$ or $\frac{1}{121} + \frac{1}{122}$;

d. $\frac{1}{120} - \frac{1}{121}$ or $\frac{1}{122} - \frac{1}{123}$

e. $\frac{1}{2021} + \frac{1}{2024}$ or $\frac{1}{2022} + \frac{1}{2023}$;

f. $\frac{1}{2021} - \frac{1}{2022}$ or $\frac{1}{2023} - \frac{1}{2024}$

g. $\frac{1}{n} + \frac{1}{n+3}$ or $\frac{1}{n+1} + \frac{1}{n+2}$;

h. $\frac{1}{n} - \frac{1}{n+1}$ or $\frac{1}{n+2} - \frac{1}{n+3}$

(n is a natural number)

5. Rewrite without parentheses:

a. $2 \cdot (x + 1)$;

b. $x(x + 1)$;

c. $(2 + x)(x + 1)$;

6. Solve the equations:

a. $2x + 7 = 5x - 26$; b. $0.4(y - 5) = 0.3(y + 1) + 1.2$; c. $-0.6 - (-y) = -0.4$

7. There are a pencils in one box, and in the other box there are 20% more pencils than in the first one. How many pencils are there in two boxes? Write the expression to solve the problem. Solve the problem if $a = 55$

1.