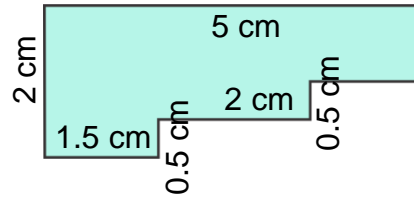Math 4d, Homework 27.
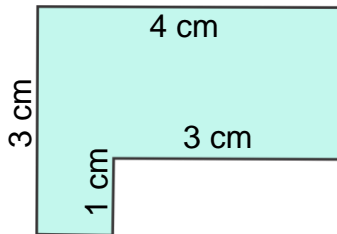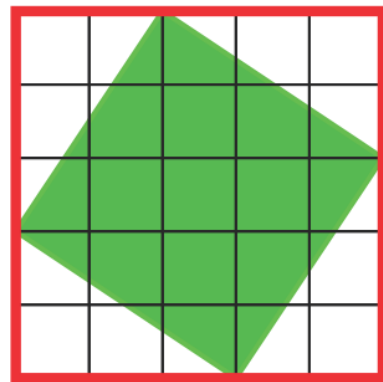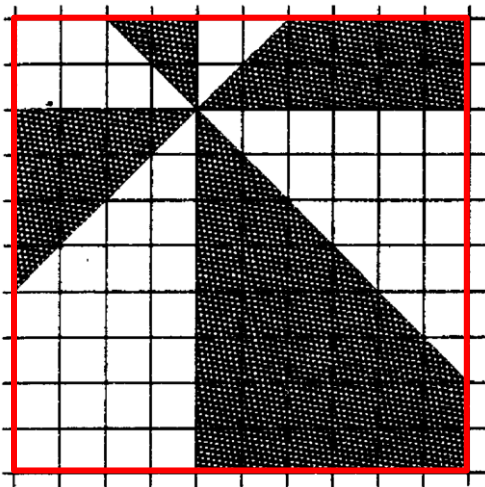
1. Find the area of the shapes (all angles are right angles):

2. Prove that the area of the green square is 13 cm² (assuming that the grid is 1 cm in each dimension).

3. Which part of the square is shaded?

4. The distance between two cities is 400.4 km. At the same time a car and a bus started to move from these cities toward each other. The speed of the car is 82.5 km/h, the speed of the bus is 11/15 of the speed of the car. How far will the bus travel before it meets the car?

5. Fill the table:

a	0	1	-1	10	-10	0.1	-0.1	$\dfrac{1}{2}$	$-\dfrac{1}{2}$
a^2									
a^3									
a^4									

6. Write the number which extended form is written below;

   Example: $2 \cdot 10^3 + 7 \cdot 10^2 + 2 \cdot 10 + 6 = 2726$;

   a. $2 \cdot 10^3 + 4 \cdot 10^2 + 5 \cdot 10 + 8$;

   b. $7 \cdot 10^3 + 2 \cdot 10^2 + 0 \cdot 10 + 1$;

   c. $9 \cdot 10^3 + 3 \cdot 10 + 3$;

   e. $4 \cdot 10^3 + 1 \cdot 10^2 + 1 \cdot 10 + 4$;