

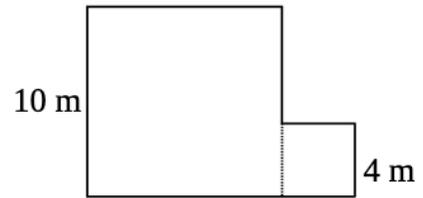
HW 25

4

The floor of a studio apartment has a shape of two squares placed next to each other without an overlap. What are the area and the perimeter of a studio apartment?

Area = _____

Perimeter = _____



5

Compare without calculation, using $<$, $>$ or $=$.

$$(14 + 21) + (21 + 14) \dots (14 + 21) \times 3$$

$$37 + 24 + 24 + 37 \dots (37 + 24) \times 2$$

$$(34 + 19) - (37 - 37) \dots 0$$

$$(28 + 22) \div (150 - 100) \dots 0$$

$$(a + b) - (a + b) \dots 1$$

$$2(a + b + c) \dots 2a + b + c$$

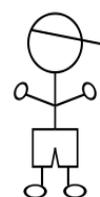
6

A hotel has 5 types of rooms depending on the number of beds. The rooms shown on the map are labeled accordingly. Figure out in which rooms Victoria and Julia are staying? Make a copy of the map and use pencil to find the options.

You know that:

- Neither of their rooms is located next the number 3: not to the left, not to the right, not above, not below.
- Both of their rooms are located either to the right or to the left of both the numbers 4 and 1.
- Both of their rooms are located nearby (to the right or left or above or below) of both the numbers 1 and 5.
- Victoria's room is to the left of Julia's room.

3	2	1	1	4	3	3	5
5	3	4	1	4	3	3	4
1	2	5	4	1	4	1	3
3	2	1	4	1	3	5	4
5	2	2	1	4	3	3	2
4	5	1	4	2	4	5	5
4	2	1	2	4	3	1	3
4	4	1	5	1	3	1	3



HW 25

7

OPEN parenthesis, regroup and SIMPLIFY.

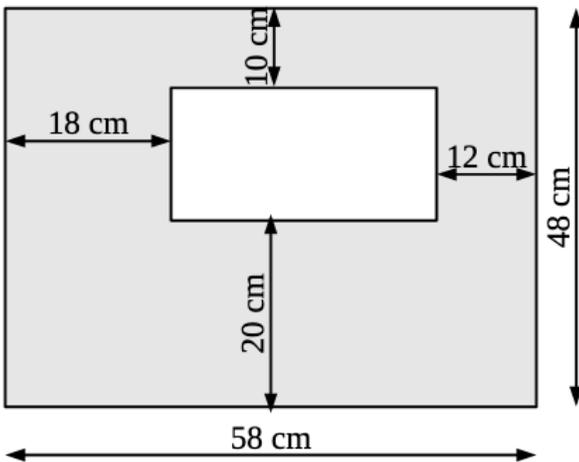
Example: $a - (2b - c) - (3d - c - b - 5a) = a - 2b + c - 3d + c + b + 5a =$
 $= a + 5a - 2b + b + c + c - 3d = 6a - b + 2c - 3d$

$4(5a + 4b) - 2(a - 3c + 5b - 6b) =$ _____

$3x - (y + z - x - 3z + 4y) =$ _____

8

Find the area of the part which is shaded grey. Think about the most optimal way to do it.



Area = _____

9

Make appropriate drawings AND write expressions to solve the word problems.

a) 5 cans of juice cost x dollars. How much do 7 cans cost? _____

b) a cans of juice cost x dollars. How much do 7 cans cost? _____

c) 5 cans of juice cost x dollars. How many cans can you buy if you have \$60? _____

d) b cans of juice cost x dollars. How many cans can you buy if you have y dollars?
