school nova™

Math 3   Homework 25

1 Place each fraction where it would go on the number line:

$\frac{1}{2}$; $\frac{1}{4}$; $\frac{4}{4}$;

$\frac{3}{8}$; $\frac{5}{8}$; $\frac{8}{8}$.
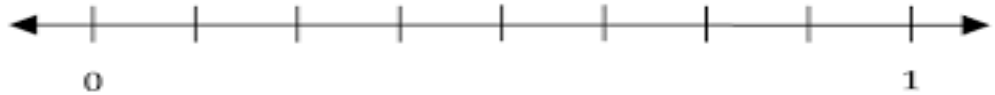
2 Write down the fractions corresponding to each letter:
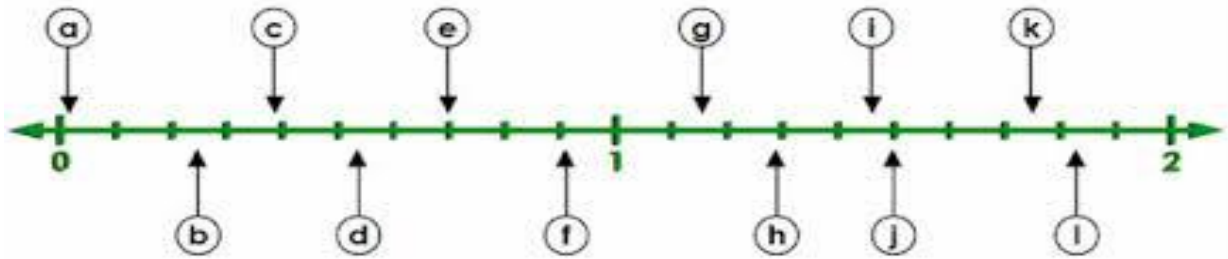
a –   b –   c –   d –   e –   f –

g –   h –   i –   j –   k –   l –

3 Long division:

486 ÷ 27 =   2,916 ÷ 27 =   2,403 ÷ 27 =

Report the time you spent on page 1: _____

HW 25

Insert a number to make an equality correct:

a) $2600 ÷ …. = 200$ b) $600 ÷ … = 200$ c) $… ÷ 100 = 50$

d) $250 × … = 5000$ e) $… × 20 = 600$ f) $… × 300 = 1500$
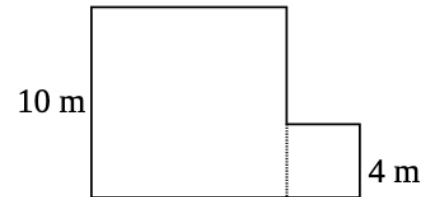
The floor of a studio apartment has a shape of two squares placed next to each other without an overlap. What are the area and the perimeter of a studio apartment?

Area = _____

Perimeter = _____

10 m

4 m

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

$(14 + 21) + (21 + 14)$ … $(14 + 21) × 3$ $(28 + 22) ÷ (150 – 100)$ … 0

$37 + 24 + 24 + 37$ … $(37 + 24) × 2$ $(a + b) – (a +b)$ … 1

$(34 + 19) – (37 – 37)$ … 0 $2(a + b + c)$ … $2a + b + c$

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
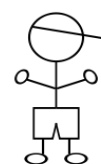
8 OPEN parenthesis, regroup and SIMPLIFY.

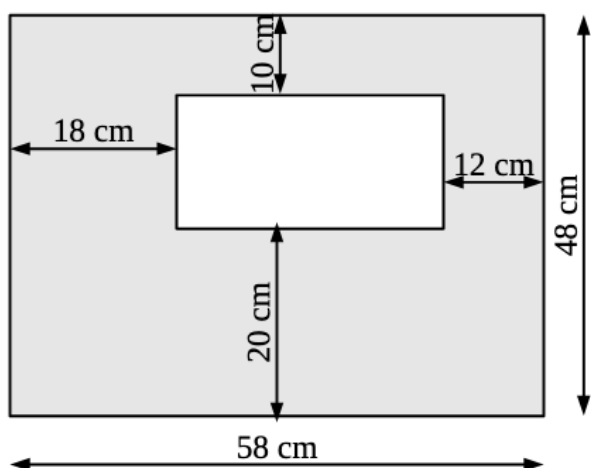*Example:* $a - (2b - c) - (3d - c - b - 5a) = a - 2b + c - 3d + c + b + 5a =$

$= a + 5a - 2b + b + c + c - 3d = 6a - b + 2c - 3d$

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

_____

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

_____

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

Area = _____

10 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?_____