Math 3 Homework 25

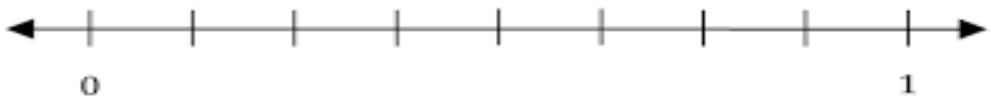
TIME this page work_____

1

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

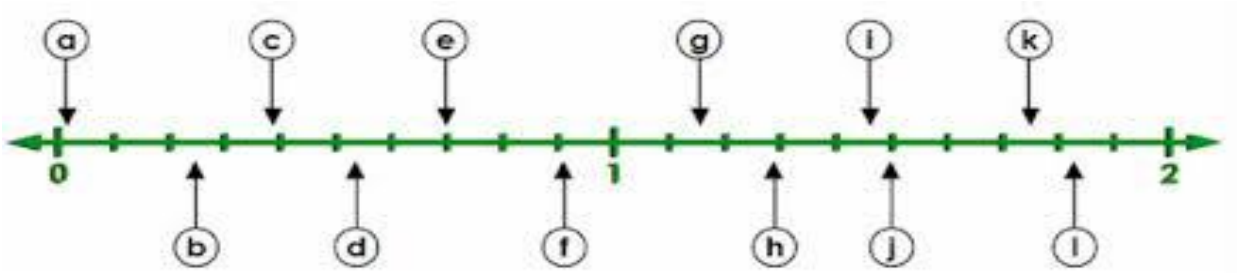
$\frac{1}{2}$; $\frac{1}{4}$; $\frac{4}{4}$;

$\frac{3}{8}$; $\frac{5}{8}$; $\frac{8}{8}$.



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

4 Insert a number to make an equality correct:

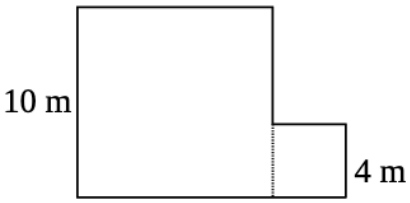
a) 2600 ÷ …. = 200 b) 600 ÷ … = 200 c) … ÷ 100 = 50

d) 250 × … = 5000 e) … × 20 = 600 f) … × 300 = 1500

5 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 = _____



6 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

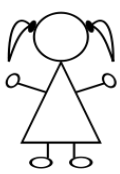
2(a + b + c) … 2a + b + c

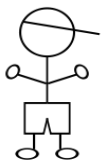
7 A hotel has 5 types of rooms depending on the number of beds. The rooms shown on the map are labeled accordingly. Figure out in which rooms Victoria and Julia are staying? Make a copy of the map and use pencil to find the options.

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

8 OPEN parenthesis, regroup and SIMPLIFY.

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

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

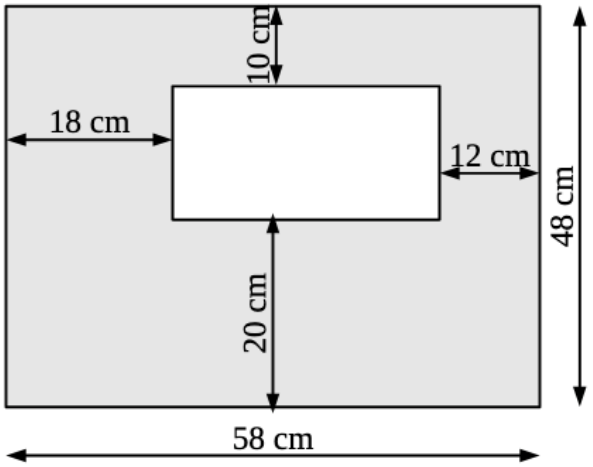
$4(5a + 4b) - 2(a - 3c + 5b - 6b) =$ _____

_____

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

_____

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?

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