

Math 2 Homework 3

1

Arrange given groups of numbers from least to greatest:

- a) 209, 69, 19, 199, 9, 109 _____
- b) 46, 116, 306, 26, 6, 176 _____

2

Write the numbers.

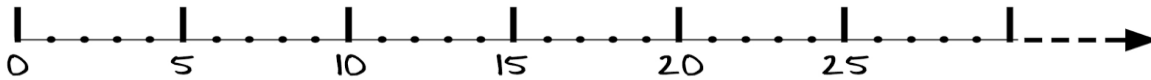
- a) Seven hundred four _____ c) Five hundred forty _____
b) 3 hundred 4 ones _____ d) 8 hundred 2 tens _____

3

Write the value of the underlined digit.

- a. 45 – forty (4 tens) e. 68 _____
b. 719 _____ d. 801 _____
c. 430 _____ f. 182 _____

4



On the number line above find and mark the numbers:

- a) greater than 5 and less than 10: : _____
b) less than 18 and greater than 14: _____

5

Write the number 222 in Mesopotamian's symbols.

(ones were written as Δ , tens as $\blacktriangleleft$, and 60 as $\blacktriangledown$).

6

Fill in the blanks with $<$, $=$ or $>$.

- 4 tens + 3 ones _____ 4 tens + 2 ones
8 tens + 0 ones _____ 0 tens + 8 ones
2 hundreds + 0 tens + 5 ones _____ 2 hundreds + 5 tens + 0 ones
5 hundreds + 2 ones _____ 50 tens + 2 ones

7

Solve for x :

$$x - 1 = 100$$

$$99 + x = 100$$

$$101 - x = 100$$

HW 3

Place value, number line.

8

Is it TRUE? Move one number to make the following equations TRUE:

Example: $1 + 2 + 3 = 4$ - False; $2 + 3 = 4 + 1$ - True

$$11 + 12 + 13 = 14 \underline{\hspace{2cm}}$$

$$3 + 9 + 6 = 2 + 4$$

$$21 + 22 + 24 = 23$$

$$3 + 7 + 11 = 5 + 10 \quad \underline{\hspace{2cm}}$$

$$11 + 21 + 16 = 2 + 3$$

9

Using a ruler, divide a given rectangle into 4 equal pieces in 4 different ways.



10

Write the expressions instead of words sentences:

a) the sum of 29 and 2 is greater than A _____

b) B is greater than the difference between 20 and 5

c) C is equal to the sum of 11, 32 and 40 _____

d) the difference between 100 and D is less than E _____

11

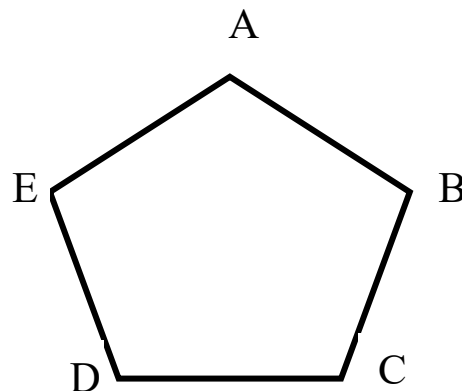
I have ten boxes, with a total weight of 75kg: 15 kg, 13 kg, 11 kg, 10 kg, 9 kg, 8 kg, 4 kg, 2 kg, 2 kg, 1 kg.

I want to pack the boxes into 3 crates, but each crate can carry a maximum of 25 kg.

How can I pack the boxes into the crates? (There may, or may not, be more than one way!)

12

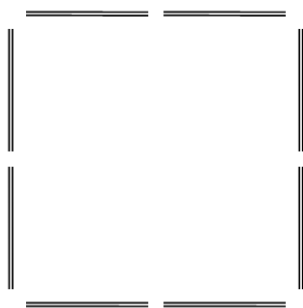
Using a ruler, connect point A with points D and C.
Also Connect points E and B.
How many triangles can you find on the picture?



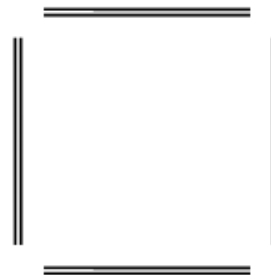
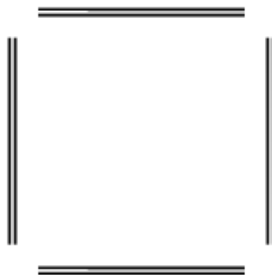
13

Matchsticks puzzles: Using 8 matchsticks, you can make one square or two squares.

one square:



two squares:



Look at the picture below. Make the same shape on your table (instead of matchsticks you can use toothpicks or any other short sticks of the same length)?

Remove 2 matchsticks (do not touch the other matches) to get 3 squares. How many matchsticks should you remove to get 2 squares?

Draw your solutions here.

