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. <u>4</u>5 – forty (4 tens)   e. 6<u>8</u> _____

b. <u>7</u>19 _____   d. 8<u>01</u> _____

c. 43<u>0</u> _____   f. <u>1</u>82 _____

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 ◄, and   60 as ▼).

_____

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:

$x - 1 = 100$ $99 + x = 100$ $101 - x = 100$

8

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

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

$11 + 12 + 13 = 14$ _____

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

$21 + 22 + 24 = 23$_____

$3 + 7 + 11 = 5 + 10$ _____

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

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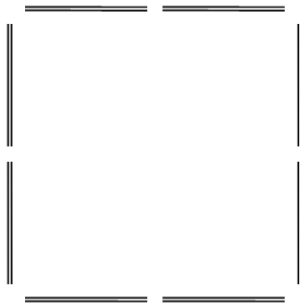How can I pack the boxes into the crates? (There may, or may not, be more than one way!)

_____

_____

_____

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?

A

E

B

D

C
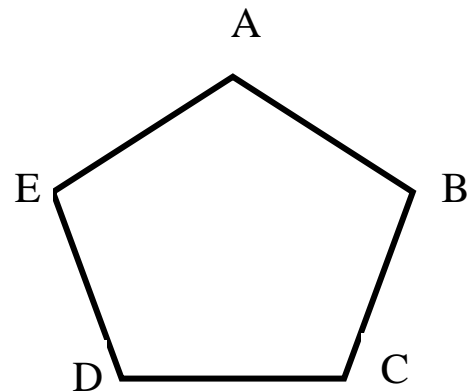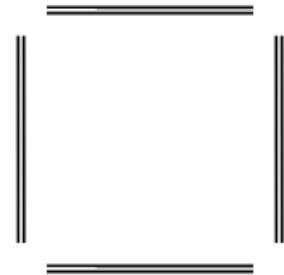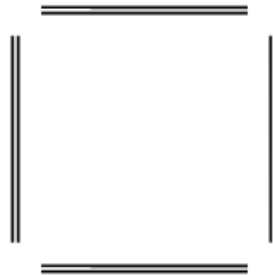
13

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.