

1

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Math 2 Homework 3

Arrange given groups of numbers from least to greatest:

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

Write the numbers.

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

Write the value of the underlined digit.

- a. $\underline{45}$ forty (4 tens)
- b. 6<u>8</u>
- c. 719
- d. 8<u>0</u>1
- e. 43<u>0</u>
- f. <u>1</u>82



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:_____

Write the number 222 in Mesopotamian's symbols.

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

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Fill in the blanks with \leq , = or \geq .

- 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

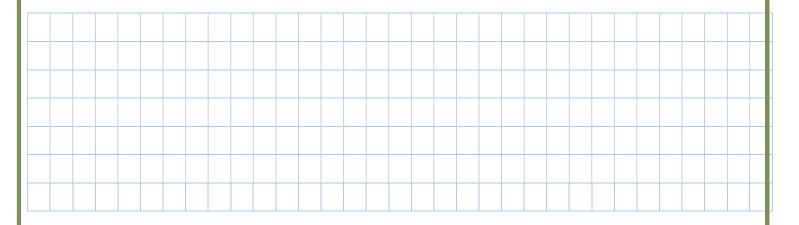
7

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

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

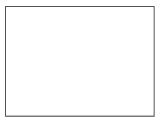
$$3 + 7 + 11 = 5 + 10$$

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

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





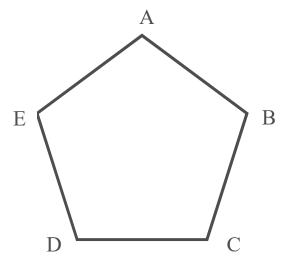




- Write the expressions instead of words sentences:
 - a) the sum of 29 and 2 is greater than A _____
 - b) B is greater than the difference between 20 and 5
 - c) C is equal to the sum of 11, 32 and 40
 - d) the difference between 100 and D is less than E
- I have ten boxes, with a total weight of 75kg: 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?
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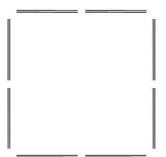
Matchsticks puzzles:

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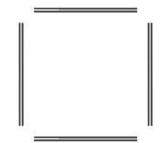
Using 8 matchsticks, you can make one square or two squares.

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.

