Math 4c. Homework 23.

1. A snapping turtle and a painted turtle start to go down to the lake at the same time. The snapping turtle is 80 meters from the lake, and he can crawl 125 cm every 5 minutes. The painted turtle is 16 meters further away from the lake, but he can crawl 12 dm every 4 minutes. Which turtle reaches the lake first if they keep on going by their own speeds and never rest?

2. Evaluate the following expressions as shown:

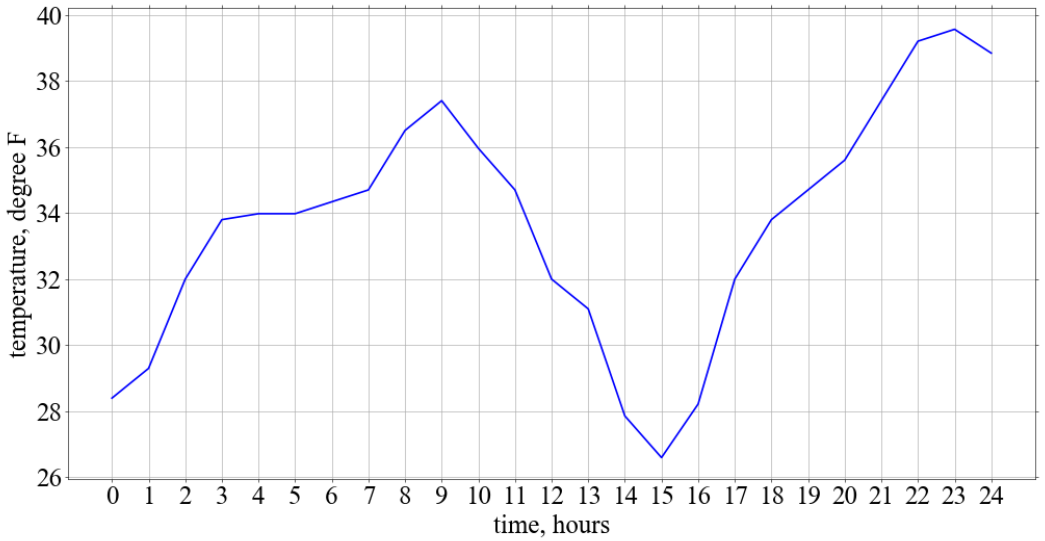
$$-3-7=-3+(-7)=-(3+7)=-10$$

$a.\ -4-8;$ $b.\ -5-2;$ $c.\ -8-14;$ $d.\ -10-10;$

$e.-20-60;$ $f.-11-23;$ $g.-28-17;$ $h.\ -5-91;$

3. Ratio of number of girls and number of boys is 2:3.
   a. How many girls and how many boys are there in the class, if there are 35 students altogether?
   b. How many boys are there if there are 8 girls in the class?
   c. How many girls are there if there are 15 boys in the class?
4. Bronze is an alloy of tin and copper. (Tin and copper are metals; they are melted together to get an alloy which is called bronze). How much copper and how much tin are there in the 80 kg piece of bronze, if the ratio of tin to copper in bronze is 3 to 17?

5. On the graph below the teperature of one February day was recorded. Time is shown in 24 hour scale: 6 am is 6, 1 pm is 13, midnite is 0, noon is 12.



Based on the graph tell (approximately):

a. What temperature was at 6 hour, at 15 hour?
b. In what time temperature was 32 °F, 38 °F?
c. At what time temperature was the highest? The lowest?
d. What temperature is the highest? The lowest?
e. During what time it was worming up? Cooling down?

6. Evaluate:

$$\left(1\frac{2}{5}+3.5\div 1\frac{1}{4}\right)\div 2\frac{2}{5}+3.4\div 2\frac{1}{8}-0.35=$$

(Answer is 3) Write your solution on paper.