

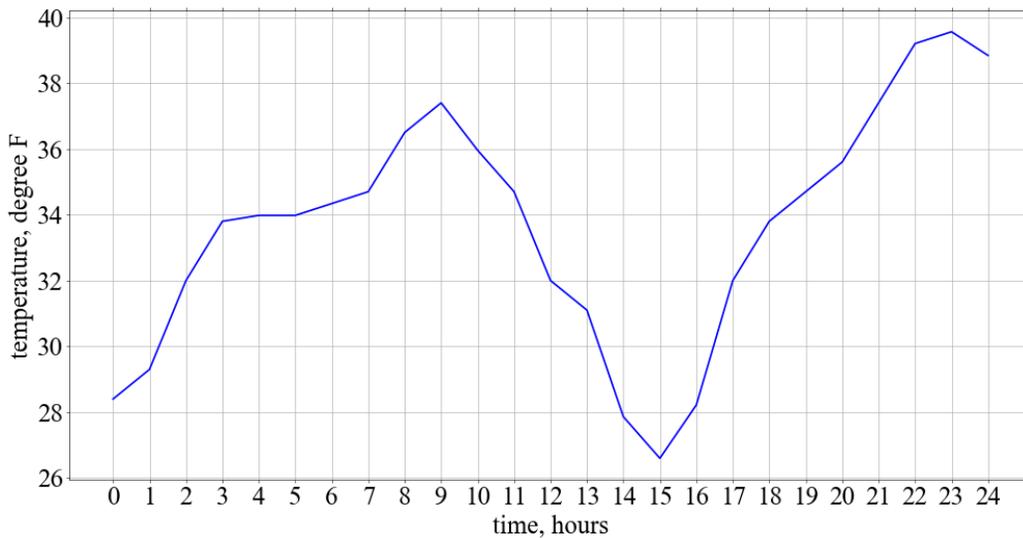
Math 4d. Homework 23.



1. 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?



2. On the graph below the temperature 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):

- What temperature was at 6 hour, at 15 hour?
 - In what time temperature was 32 °F, 38 °F?
 - At what time temperature was the highest? The lowest?
 - What temperature is the highest? The lowest?
 - During what time it was warming up? Cooling down?
3. 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.



4. A musketeer has three beautiful hats, four elegant tabards, and two pairs of excellent boots. How many different costumes can he wear?

(tabard - a sleeveless jerkin consisting only of front and back pieces with a hole for the head.

5. In a restaurant customers can order a cheese platter for \$15 or \$20. For \$15 platter, you can choose 3 different kind of cheese out of 15 and for \$20 platter you can choose 5 different kind of cheese. How many different ways are there to create these two cheese platters?

6. There are 10 green and 5 red pencils in the box. Which is the smallest number of the pencils you have to take out of the box, to be sure that you have 2 green pencils? 2 red pencils? 2 pencils of different color? 2 pencils of the same color?

