Math 4e. Homework 9.

1. Evaluate:

   $a. -1 \cdot 5;$ $b.\ 33 \cdot (-1);$ $c. -101 \cdot 0;$

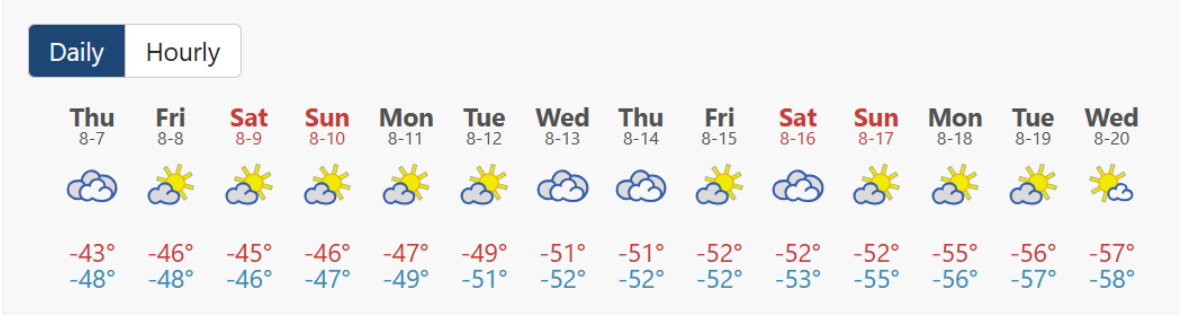
   $d. -15 \cdot (-1);$ $e.\ 0 \cdot (-111);$ $f. -1 \cdot 0;$

2. Evaluate:

   $a.\ (+6) \cdot (-4);$ $b.\ (+15) \cdot (-2);$ $c.\ (-12) \cdot 3;$

   $d.\ (-10) : (+2);$ $e.\ 15 : (-3);$ $f.\ (-1) \cdot (+1001);$

3. In the picture, there is a weather forecast for Antarctica from August 7 to August 20 (from meteoblue.com). Which day was the coldest, and which day was the warmest during this period in Antarctica?



4. Positive number, negative number or 0 is the result of the products:

   $a.\ (-1) \cdot (-2) \cdot (-3) \cdot (-4) \cdot (-5) \cdot (-6) \cdot (-7) \cdot (-8) \cdot (-9);$

   $b.\ (-1) \cdot (-2) \cdot (-3) \cdot (-4) \cdot (-5) \cdot (-6) \cdot (-7) \cdot (-8);$

5. A student borrowed an interesting book from the library. It has 75 pages. On the first day, he read $\frac{3}{5}$ of the entire book, and on the second day, he read $\frac{2}{5}$ of the remaining pages. How many pages does he have left to read?

6. Find the number, if

   $a.\ \frac{2}{3}\ of\ this\ number\ is\ 6;$ $b.\ \frac{2}{5}\ of\ this\ number\ is\ 22;$ $c.\ \frac{3}{7}\ of\ this\ number\ is\ 12;$

7. Find

   $a.\ \frac{2}{3}\ of\ number\ 6;$ $b.\ \frac{2}{5}\ of\ number\ is\ 25;$ $c.\ \frac{3}{7}\ of\ number\ is\ 49;$

8. To which natural numbers the following fractions are equal to?

   Example: $\frac{12}{3} = 4$

   $a.\ \frac{16}{8};$ $b.\ \frac{18}{2};$ $c.\ \frac{24}{6};$ $d.\ \frac{30}{3};$ $e.\ \frac{35}{35};$ $f.\ \frac{51}{17}$

9. Victor had 80 dollars more than Mary. After Victor spent half of his money, he had 10 dollars less than Mary. How much money did Mary and Victor have together initially?