1. A pipe can drain a swimming pool in 6 hours. The pool is $4 / 5$ full of water. How many hours and minutes will it take to drain it?
2. Find the expression that will give you:
a) the perimeter of the figure below
b) the area of the figure below

3. There are 6 false equalities below. Replacing only one stick in each of them makes the equality true. Find the stick and show where to move it:
a)

d) $]^{9} / \mathrm{a}=\mathrm{e}$.


c) $\mathbb{Y}] \backsim \mathbb{V} \subseteq=\mathbb{M}$

4. Find the measurement of the angle OAB (it is the angle with the vertex "A")

5. Compute the value of the expressions $9 a^{2},(9 a)^{2},-9 a^{2},(-9 a)^{2}$ if :
a) $a=\frac{1}{6}$
b) $a=-0.1$
c) $a=-\frac{2}{3}$
d) $a=0.4$
6. Rewrite the following expression without parenthesis:
$\left(\frac{1}{2}+a\right)(2+a)=$
$(n-a)(n+a)=$
$(a+b)(a+b)=(a+b)^{2}=$
$(2 a+2 b)(b-c)=$
7.     * In a restaurant's dessert menu chocolate mousse cake is $25 \%$ more expensive than their cheese cake. By how many percent is the cheese cake less expensive than the chocolate mousse cake?
8. Julia has to write a 32 -pages paper in 3 days. On the first day she wrote $\frac{3}{8}$ of the paper, one the second day she wrote $\frac{1}{4}$ of the paper. How many pages does she need to write on the third day?
9. I have 15 new books to choose from.
A) I have a 5-day vacation and I want to read 1 book every day. How many possible ways are there for me to read these 5 books?
B) I have a 3-day long vacation and I want to read 1 book every day. How many possible ways are there for me to read these 3 books?
10. Compute:
a. $\left(-\frac{1}{2}\right)^{5}$
b. $\left(-\frac{2}{3}\right)^{4}$
c. $\left(-\frac{4}{5}\right)^{3}$

## 11. Compute:

a. $-3+\left(-1 \frac{1}{5}\right)=$
b. $-3 \frac{8}{19}+\left(-1 \frac{11}{19}\right)=$
c. $-7 \frac{1}{3}+\left(-1 \frac{2}{3}\right)=$


