1. 

a. Find the largest and smallest of the following five numbers: $21,-12,30,-1,2$
b. Find the largest and smallest of the following numbers: $-\frac{15}{17},-1,-\frac{3}{119}, 0.2,1,0$
2. The teacher wrote a few problems with decimals on the board, but Aniket erased all the decimal points. Put the decimal points back into the expressions to make them correct.
$32+18=5 \quad 63-027=603$
3. In a class, there are 1.5 times as many boys as there are girls. If there are 35 students in the class, how many boys are there? [Hint: convert the decimal number into a regular fraction]
4. One shelf has $\frac{3}{4}$ as many books as on another shelve. How many books are on each of the shelves, if the total number of books is 49 .
5. Simplify:
a. $\quad d^{n} d\left(-d^{n+1}\right) d^{n} d^{2}=$
b. $2 x^{2} y^{3} \cdot\left(-4 x y^{2}\right)=$
c. $3^{2}+3^{2}+3^{2}=$
d. $3^{k}+3^{k}+3^{k}=$
e. $3^{k} \cdot 3^{k} \cdot 3^{k}=$
6. Teddi wants to take 3 dogs with him on his morning walk. If Teddi owns 8 dogs, how many different groups of dogs can he choose for his walk?
7. Compute:
$3+2 \cdot(-6-(-9))=$
$|(-6)+(-9)|=$

$$
\begin{array}{ll}
1-(5+(-4))= & |(-5)+4|= \\
|5+(-4)|= & |-2-6|=
\end{array}
$$

8. Write the algebraic expression for the following problems and evaluate it for given values of variables:
a. There are $n$ pears in the basket, which is $\frac{3}{7}$ of all fruits in the basket. How many fruits are there in the basket? $(n=21)$
b. There is $x$ candy in a box. Chocolate candies are $\frac{4}{9}$ of all candies. How many not chocolate candies are there in the box? $(x=36)$
9. The volume of water increases by $\frac{1}{11}$ when it freezes. By how much the volume of ice does decrease when it melts?
10. Solve the inequality:

$$
3(5 x-1)<5 x+29
$$

11. Using ruler draw a triangle on a graphing paper. Then, draw three altitudes in it. You can either use a triangle with a right angle or construct the altitudes as shown here https://www.mathopenref.com/constaltitude.html Did all three of your altitudes intersect in one point? (to draw a perpendicular use anything with the right angle).
12. Using ruler draw a triangle on a graphing paper, draw three medians in it. Try
constructing the medians as shown here https://www.mathopenref.com/constmedian.html Did all three of your medians intersect in one point? Cut your triangle, try to balance it on a sharpened pencil at the point of intersection of the medians. It should balance!
13. Solve the following equations, mark the answers on a number line, find the coordinate of the midpoint of the segment.
Example:
$|x-3|=7$
$x-3=7 \quad x-3=-7$
$x=7+3=10$
$x=-7+3=-4$
$-40310$
Coordinate of midpoint is 3 .
a. $|b-2|=3$
b. $|c+1|=$

