**Baseline task**

The purpose of this task is to assess your knowledge of the Grade 9 work and basic algebra. **Answer** the following questions at the **back of your 2 quire homework book**.

1.



1. Describe each of the following sets of numbers: $IN$, $IN\_{0} and $ $Z$

1. Make a copy of the number line below:



1. Mark the positions of the following numbers on your number line. Use your calculator to help you.

-$\sqrt{8}$ ; $-2\frac{1}{4}; -1,5; $ $\frac{1}{3} ; $ 0,6 ; $\sqrt{2}$ ; $2,\dot{6} $; $π$

 b. How accurately were you able to mark the positions of the numbers, -$\sqrt{8}$ ; $2,\dot{6}$ and

 $π$ on the number line?

1. Solve each of the following equations:

3.1.1 $3x-15=0$ 3.1.2 $x^{2}=36$

3.1.3 $x^{3}=-81$ 3.1.4 $\frac{6}{x}=2$

 4. State whether each of the above solution belongs to$N$, $N\_{0}$ , $Z$ or none of the three sets

 of numbers.