INSTRUCTIONS: Answer all the questions given below and clearly show your workings

1. Evaluate: \[
\frac{-2(5+3)-9\div3+5}{-3(-5)+(-2(4))}
\]

=3 mks
2. A group of 60 people consisting of adults and children hired a bus for Sh. 18,600 in order to take a trip. Each adult paid Sh. 400 while each child paid Sh. 250. Find the number of adults and the number of children.

3. A bus travels $75 \frac{1}{2} \text{ km/h}$. What distance will it cover in $2 \frac{1}{2} \text{ hrs}$?

4. $Y$ represents a number which when divided by 10, 15 or 18, the remainder is always 7. Find $Y$.

5. John miscopied 75 as 57. He then multiplied 57 by a certain number and got 456. Find the number and the correct product.
6. The density of liquid $X$ is 0.9 $g/cm^2$. Calculate the volume in $m^3$ of 2800 kg of the liquid. =3 mks

7. Five years ago, the population of Mosocho Division was 141,000. If it has increased by 11% since then, what is it now? =2 mks

8. Evaluate: $\frac{0.236 \times 1.0341}{3.226 \times 0.0021}$ =3 mks
9. Peshna spends $\frac{1}{4}$ of her days’ time reading and $\frac{1}{8}$ playing. She then spends $\frac{1}{2}$ of the remaining time sleeping.

   a. What fraction of the day does she spend sleeping? =2 mks

   b. If she spends the remaining time in a church service, how many hours does she spend in the church? (Hint: 1 day = 24 hours) =2 mks

10. The smaller of the two consecutive integers is $P$. Find the sum of 3 times the smaller integer and five times the greater. =3 mks

11. Factorize the following expression: $3px - py + 3qx - qy$ =2 mks