ADM…………. NAME ………………………………………………………………… CLASS ……..

1. Factorize the following expressions:

    a. $3PX - PY + 3QX - QY$ (2mks)

    b. $a^2 4p + a$ (1mk)

2. The LCM of **two** numbers is **154** and the GCD is **2**. If one of the numbers is **22**, find the other number (2mks)

3. If **9** is added to a certain number, the result is **1** less than **3** times the number. What is the number? (2mks)

4. Work out the following giving your answers as a mixed number in its simplest form. (3mks)

    $$\frac{2}{5} \div \frac{1}{2} \, of \, \frac{4}{9} - \frac{11}{10}$$

5. Convert the following decimals into fractions to the simplest form

   a. 2.0010   (2mks)   b. 4.1$\dot{6}$ (2mks)

6. **Three** boys shared some money. The youngest got $\frac{1}{12}$ of it, the next got $\frac{1}{9}$ of it, and the eldest got the reminder.

   a. What fraction of the money did the eldest receive?   (2mks)

   b. If the eldest boy got **shs 330.00** what was the original sum of money?   (2mks)

7. Solve the following equations with the help of <u>mathematical tables</u> expressing your answers in standard format i.e. $(A \times 10^n)$

   a. 25.3^2 (2mks)   c. $\sqrt{0.235}$ (2mks)

   b. 223.4^2 (2mks)   d. $\sqrt{0.0168}$ (2mks)