

**FORM ONE EXAM**  
**SUBJECT: BASIC MATHEMATICS**

**Answer all questions**

1. (a) Write the following numbers in short form:

$$9 \times 1000,000 + 6 \times 10,000 + 4 \times 1000 + 2 \times 10 + 5 \times 1$$

- (b) Express 6721948 in words

2. (a) Write 720 as a product of its prime factors

- (b) The population of a city is 1234567 people, if there are 543207 men, 498250 women and the rest are children. Find the number of children in the city.

3. (a) Aydin scored 55 out of 80 marks in Mathematics test. What is his score in percentage?

(b) Write down all factors of 200

4. (a) Convert  $\frac{5}{6}$  into repeating decimals

(b) Write down all multiples of 7 between 40 and 81.

5. (a) Convert  $12\frac{1}{5}\%$  into simple fraction.

(b) What is the greatest common factor of 25 and 30?

6. (a) By using number line, evaluate  $-3 + 8$

(b) Evaluate:  $133 - 2 \times 3 + 14 \div (2 + 5)$

7. (a) A page of a book has 50 lines, if each line contains 50 words. How many words are there if the book has 100 pages?

(b) How many prime numbers are there between 80 and 100?

8. (a) Convert  $0.\dot{3}$  into simple fraction.

(b) How many books are left over when 199 of them are packed into bags which hold 19 books each?

9. (a) Arrange the following fractions in ascending order of magnitude

$$\frac{2}{3}, \frac{1}{6}, \frac{2}{7}, \frac{2}{5}$$

(b) Evaluate;  $\frac{0.1}{0.01} + \frac{2}{0.2} + \frac{0.03}{0.3}$

**10.** (a) Evaluate:  $2\frac{1}{4} - \frac{3}{4} \times \frac{4}{9}$

(b) Fatuma was given 10,000/= by her father. She spent  $\frac{1}{4}$  of it to buy food, how much money remained?