



The National
Orthodox School
Shmaisani

Subject: Mathematics

First Exam / Remedial Plan

Name:

Grade-Section: 8 CS

Date:

Teacher: Zain Hattar

Objective: Revise factors, fractions, order of operations and recurring decimals.

Question 1

Work out the following without using a calculator. Show all the steps of your working and give your answer as a fraction in its simplest form.

a) $6\frac{2}{5} + 4\frac{1}{2} =$

b) $9\frac{1}{5} - 3\frac{3}{4} =$

c) $2 \times 5 + (4\frac{1}{5})^2 =$

d) $(2\frac{1}{3})^2 =$



$$\text{e) } -\frac{5}{17} \times -5\frac{2}{3} =$$

$$\text{f) } -1\frac{1}{4} \times 2\frac{2}{3} =$$

$$\text{g) } 8\frac{3}{4} \div 3\frac{1}{2} =$$

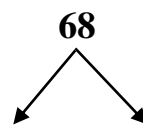
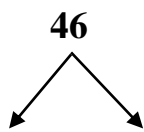
$$\text{h) } \frac{5}{6} \times \left(\frac{2}{4} - \frac{1}{3}\right) - \frac{1}{36} =$$

Question 2

a) Find the factors of 190

Factors of 190 are:

b) Find the HCF of 46 and 68



46 = _____

68 = _____

HCF = _____

Question 3

Convert these fractions to decimals. Use the correct dot notation for any recurring decimals.

a) $\frac{2}{9} =$ _____

b) $8\frac{7}{11} =$ _____

c) $\frac{100}{28} =$ _____

d) $\frac{4}{16} =$ _____

Question 4

a) $\frac{1}{99} = 0.0\dot{1}$

Use the fact above to convert $\frac{5}{99}$ to a recurring decimal.

Show your work!

b) Decide whether the fraction $\frac{2}{140}$ will be equivalent to a recurring decimal or a terminating decimal. Explain why!

Question 5

- a) There are 96 children in a room, 40 of them are girls. Find the fraction of the children that are boys. Write your answer in its simplest form.
- b) A two litres jug is filled with water. It is used to fill two cups, one holding $\frac{1}{5}$ litre and the other $\frac{3}{8}$ litre. How much water remains in the jug?
- c) A piece of wood is $6\frac{1}{4}$ metres long. How many $1\frac{1}{2}$ metre strips can be cut from it?

d) Lian earned \$585 last month; she spent $\frac{5}{9}$ of the money to buy a laptop. How much money is left with Lian?

e) The area of a rectangle is $8\frac{3}{4}$ cm². What is the length if its width is $2\frac{1}{2}$ cm?

**NEVER
NEVER
NEVER
NEVER
GIVE
UP**