The National Orthodox School Shmaisani

Mathematics worksheet (2)

Multiples and factors + square and cube numbers and roots

Name: **Grade 6 (B, C, D, E, F)**

Multiples and factors.

- Multiples: The multiples of a number are all the numbers from its timetable.
- Factors: The factors of a number are all the whole numbers that divide into it.
- Prime number: is the number that has only **two factors**; **1** and the **number itself**.
- Composite number: a number that has **more than two factors.**

Exercise (1): Write the first seven multiples of:

a) 7:
b) 9:
c) 14:

Exercise (2): Write all the factors of:

a) 34:
b) 90:
c) 64:
d) 120:

Exercise (3): Check (√) the prime number from the composite number.

	Prime number	Composite number
81		
233		
411		
6352		

Exercise (4):

a) Find the HCF of:

32:

48:

HCF:

b) Find the LCM of:

5:

12:

20:

LCM:

Exercise (5): Check the divisibility for the numbers below.

	Divisible by 2	Divisible by 3	Divisible by 5	Divisible by 6	Divisible by 8	Divisible by 9
918120						
31245						
133137						

Exercise (6): Work out.

a) 5^2 ⇨

b) 11^2 ⇨

c) 7^3 ⇨

d) $\sqrt{196}$ ⇨

e) $\sqrt[3]{125}$ ⇨

f) $\sqrt[3]{64}$ ⇨

g) 10^3 ⇨

h) $\sqrt{324}$ ⇨

Challenging question.

Work out.

$$-7 - 10 \times \sqrt{16} \div \sqrt[3]{125} - (7 + 6^2 \div 12) - 20 - 4^3$$