



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:

- 7:
- 9:
- 14:

**Exercise (2):** Write all the factors of:

- 34:
- 90:
- 64:
- 120:

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

	<b>Prime number</b>	<b>Composite number</b>
<b>81</b>		
<b>233</b>		
<b>411</b>		
<b>6352</b>		

**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.


	<b>Divisible by 2</b>	<b>Divisible by 3</b>	<b>Divisible by 5</b>	<b>Divisible by 6</b>	<b>Divisible by 8</b>	<b>Divisible by 9</b>
<b>918120</b>						
<b>31245</b>						
<b>133137</b>						


**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.

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