



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: 7, 14, 21, 28, 35, 42, 49
b) 9: 9, 18, 27, 36, 45, 54, 63
c) 14: 14, 28, 42, 56, 70, 84, 98

Exercise (2): Write all the factors of:

- a) 34: 1, 2, 17 and 34.
b) 90: 1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, and 90.
c) 64: 1, 2, 4, 8, 16, 32 and 64
d) 120: 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60 and 120

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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: 1, 2, 4, 8, 16, 32

48: 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48.

HCF: 16

b) Find the LCM of:

5: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60

12: 12, 24, 36, 48, 60, 72, 84

20: 20, 40, 60, 80, 100, 120

LCM: 60

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) $5^2 \Rightarrow 25$

b) $11^2 \Rightarrow 121$

c) $7^3 \Rightarrow 343$

d) $\sqrt{196} \Rightarrow 14$

e) $\sqrt[3]{125} \Rightarrow 5$

f) $\sqrt[3]{64} \Rightarrow 4$

g) $10^3 \Rightarrow 1000$

h) $\sqrt{324} \Rightarrow 18$

Challenging question.

Work out.

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

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