



### Mathematics worksheet (2)

Multiples and factors + square and cube numbers and roots

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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, 72, 91 c) 14: 14, 28, 42, 56, 70, 84, 98

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

a) 34: 1/2/1734

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

Exercise (3): Check (1) the prime number from the composite number.

	Prime number	Composite number		
81		✓		
233	V	1		
411				
6352		<b>/</b>		

#### Exercise (4):

a) Find the HCF of:

32: 1,24.8,16,32

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

20: 20, 40,60

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	V	~	V	<b>/</b>	<b>/</b>	
31245			V	X-1		
133137		V	1	1	i i	V

## Exercise (6): Work out.

a) 
$$5^2 > 5 \times 5 = 25$$

c) 
$$7^3$$
  $7x7x7=343$ 

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

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

g) 
$$10^3$$
 |  $0 \times 10 \times 10 = 1000$ 

#### Challenging question.

Work out.

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

$$-7 - 10 \times \sqrt{16} \div \sqrt[3]{125} - (7 + 36 \div 12) - 20 - 4^{3}$$

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

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