



### Mathematics worksheet (2)

Multiples and factors + square and cube numbers and roots

Name: Ramzi

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: 1,2,17,34

b) 90: 712131516, 9,70,75,18,30, 45,90

c) 64: 7/2 M18176132164

d) 120:1,213,4,5,6,10,12,20,24,30,40,60,120

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

	Prime number	Composite number		
81		/		
233	1	\\		
411	V	$\checkmark$		
6352		1/		

# Exercise (4):

a) Find the HCF of:

32:1/2/4/8/16/32 48:1/2/4/6/8/12/24/48

**HCF**: 8

b) Find the LCM of:

5: 5, 10, 15, 120, 125, 30, 35, 40, 45, 50, 55, 60

12: 12124, 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	J	V	J	J		
31245			1			
133137		<i></i>				

#### Exercise (6): Work out.

a) 
$$5^2$$
 25

d) 
$$\sqrt{196}$$

h) 
$$\sqrt{324}$$
 78

#### Challenging question.

Work out.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$= -7 - 8 - 10 \times \sqrt[3]{125} - (7 + 6^{2} \div 12) - 20 - 6^{4} =$$

$$= -7 - 8 - 10 \times \sqrt[3]{125} - (7 + 6^{2} \div 12) - 20 - 6^{4} =$$

$$= -7 - 8 - 10 \times \sqrt[3]{125} - (7 + 6^{2} \div 12) - 20 - 6^{4} =$$

$$= -7 - 8 - 10 \times \sqrt[3]{125} - (7 + 6^{2} \div 12) - 20 - 6^{4} =$$

$$= -7 - 10 \times \sqrt[3]{125} - \sqrt[3]{125} - \sqrt[3]{125} - \sqrt[3]{125} - \sqrt[3]{125} - \sqrt[3]{125$$