Spring Hill International School

Quiz no.4

Scholastic Year 2020/ 2021

Student's Name:

Class & Section: Grade 8

Teacher's Name: Raghda Ziad

Subject: Math / Checkpoint

Test Duration: 10 mins

Date: 23/ March / 2021

No. of Questions: 3

No. of Pages: 2

Question Number	Q.1	Q.2	Q.3	Total Mark
Student's Mark				
Question Mark	1	2	2	5

Question no. 1 :

The equation $x^3 + x^2 = 230$

Use the trial and improvement method to find this solution .

Give your answer correct to one decimal place .

You must show your work .

The value of x	The value of $x^3 + x^2$	Comments

$x =$ ....

Question no. 2:

A) Hannah and peter each have some Smarties in a jar
The table shows how many Smarties they have and how many of these Smarties are red .

	Number of Smarties	Number of red Smarties
Hannah	440	40
Peter	540	45

Who has the greater proportion of red Smarties ?   ....
Show Your Work .

B) A cafe sales five flavors of ice-cream.
The number of each type ordered last week was in the ratio
Chocolate : Mango : Lemon : Vanilla : Raspberry = 8 : 5 : 1 : 4 : 2
The total number of ice-cream sold last week was 180 .
Work out the number of :
lemon ice-cream   ....
Mango ice-cream   ....

Question no. 3:

A) Tick to show if each pair of variables is directly proportional or not .

	Directly Proportional	Not Directly Proportional
Speed of a car and the time it takes to travel a given distance		
The number of family members and the food you need to buy		
The length of the side of the square and it's perimeter		
The number of exercises a person practice prior a math exam and the time it takes to complete the exam		

B) The exchange rate for converting between US dollars and euros is

1 US dollar = 0.85 euros .

Change :

65 dollars into euros   ………………………………… euros

100 euros into dollars   ………………………………… dollars