



## Second Exam

Name: \_\_\_\_\_

Grade: 9

Subject: Mathematics

Date: \_\_\_\_\_

**Question One:** Solve the following equations:**((10 marks))**

<b>A</b>	$2.15X + 2.15 = 4.3$	
<b>B</b>	$(3X - 1)(X - 2) = 0$	
<b>C</b>	$9X^2 + 25 = 50$	
<b>D</b>	$(X - 4)^2 - 49 = 0$	
<b>E</b>	$(X + 3)^2 + 6(X + 3) + 9 = 0$	

**Question Two:** Express X in terms of a, b and c:**((2 marks))**

<b>A</b>	$a = \frac{bX + c}{X}$	
<b>B</b>	$(2aX + b) = \frac{aX - b}{2}$	



**Question Three:** Solve the following fractional equations:

((3 marks))

A	$\frac{6}{X} = \frac{5}{6}$	
B	$\frac{X+13}{6} = \frac{2}{3}$	
C	$\frac{X}{5} + \frac{1-X}{3} = \frac{1}{5}$	

**Question Four:** A, B and C are consecutive natural numbers. If  $\frac{2}{7}$  of the

reciprocal of A is equal to  $\frac{1}{3}$  of the reciprocal of C, find B?

((5 marks))

**Question Five:** The area of a rectangle is  $84 \text{ cm}^2$ . If the length is 5 cm longer than the width, find the length of the rectangle?

((5 marks))

*Best wishes*  
*Mahmoud M. Aladdasi*