1. Simplify the following:

- (a) 4x + 2y + 5x + 3y
- (b) 2x + 6y + 3x + 5y
- (c) 11x + 3y + 6x + 25y

(6 marks)

2. A binary operation is defined by:

(8	marks)
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3. Multiply the following: (2x-1)(3-x)

(5 marks)

4. If x + 4 = 9, then what is the value of x

(2 marks)

- 5. Factorize Completely
- (a) 16p + 2q

(b)  $169a^2 - 13a$ 

(4 marks)

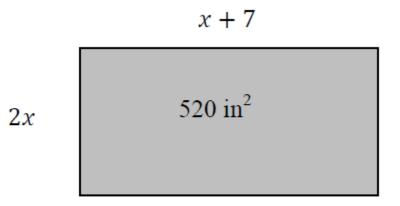
6. Solve the quadratic equations:

 $3x^2 - 27x + 54 = 0$ 

 $x^2 - 3x + 20 = 8$ 

(12 marks)

7. Find the dimensions of the rectangle, (Find the length and the width):





**Total 46 Marks**