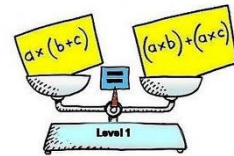




## Grade 8 - Mathematics

### Algebraic Equations 1

#### Activity



A. Convert the following word statements into algebraic equations. You do not need to solve the equations:

1. Multiply a number by four and the answer is twenty.

\_\_\_\_\_

2. Add eighty-three to a number and the answer is one hundred.

\_\_\_\_\_

3. A number to the power of 2 is forty-nine.

\_\_\_\_\_

B. Calculate the value of  $x$ :

1.  $2x + 5 = 21$

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Check by substitution

2.  $12 + 9x = 30$

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3.  $30 - 2x = 40$

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



C. Calculate the value of  $x$ :

Check by substitution

1.  $2x - 1 = 3x - 6$

---

---

---

---

---

2.  $x + 4 = 2x + 5$

---

---

---

---

---

3.  $7x + 9 = 4x + 30$

---

---

---

---

---

---