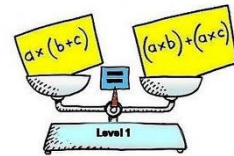




## Grade 8 - Mathematics

### Algebraic Equations 3

#### Activity



A. Expand the following:

1.  $y^3 =$  \_\_\_\_\_
2.  $2z^2 =$  \_\_\_\_\_
3.  $(5a)^4 =$  \_\_\_\_\_
4.  $pq^2 =$  \_\_\_\_\_
5.  $(rs)^5 =$  \_\_\_\_\_

B. Simplify the following expressions:

1.  $2x^2 + (-3x)^3$   
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2.  $5(2x)^2 - (3x)^2$   
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3.  $6v^3 + (-2v)^3$   
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4.  $9m^4 - (-4m^2)^2$   
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5.  $(-2y)^3 + 2(y)^2$   
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



C. Solve the following equations:

1.  $4(9p)^2 + 10 = 334$

---

---

---

---

---

---

---

---

---

---

2.  $(-6q)^2 - 30 = 2q^2$

---

---

---

---

---

---

---

---

---

---

3.  $11j^2 + (5j)^2 - 4 = 12$

---

---

---

---

---

---

---

---

---

---



# WorksheetCloud

[grade8@worksheetcloud.com](mailto:grade8@worksheetcloud.com)