

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

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

### Class Work – Concepts of algebra

Read the questions carefully, then solve in your notebooks before inputting an answer.

1.

(a) Simplify

(i)  $3x + 2y + 5x - 4y$ ,

Answer: \_\_\_\_\_

(ii)  $5a^2 \times 2a$

Answer: \_\_\_\_\_

(b) Evaluate

when  $a = 3$ ,  $b = 2$  and  $c = -4$

(i)  $abc$

Answer: \_\_\_\_\_

(ii)  $\frac{4b}{c}$

Answer: \_\_\_\_\_

(c) Solve

$$3(y + 2) = 21$$

Answer: \_\_\_\_\_

2. **Note:** There is **NO** space between the symbols and terms.



- (a) Using  $x$  as the unknown number, write down an equation to represent Rodney's thought.

Answer: \_\_\_\_\_

- (b) Solve the equation to find  $x$ .

Answer: \_\_\_\_\_

3. **Note:** There is **NO** space between the symbols and terms.

Simplify

$$\frac{28a^2b}{4ab}$$

Answer: \_\_\_\_\_

Add together

$$5x + 7, \quad 3x - 8 \quad \text{and} \quad 6x - 25.$$

Answer: \_\_\_\_\_

4.

Given that  $y = mx + c$ , calculate the value of “c” when  $y = 15$ ,  $m = 3$ , and  $x = 4$ .

Answer \_\_\_\_\_

5.

- (a) Solve,  
 $5p = 65.$

Answer \_\_\_\_\_

- (b) Simplify,

(i)  $5m + 3n + n - 2m,$

Answer \_\_\_\_\_

(ii)  $g^2 \times g^3$

Answer \_\_\_\_\_

