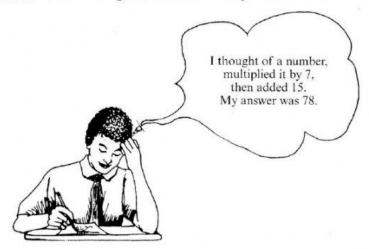Name: _____   Date: _____

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) $\dfrac{4b}{c}$

           Answer: _____

(c)   Solve

     $3(y + 2) = 21$

           Answer: _____

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

I thought of a number,
multiplied it by 7,
then added 15.
My answer was 78.

(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 _____