Evaluate
$$(-j^2+k)(-2l-k)$$
 if $j=-5$, $k=-7$, $l=4$.

Solution: Plug in the given variables

$$(-(-5)^2+(-7))(-2(4)-(-7))$$

· Simplify:

$$(-25-7)(-8+7)$$

 $(-32)(-1) =$
 $-32\cdot -1 = 32$

$$(-(-5)^{2} + (-7))(-2(4) - (-7))$$

$$(-5)^{2} = -5 \cdot -5 = 25$$

$$(-5)^{2} = -5 \cdot -5 = 25$$

$$(-25 - 7)(-8 + 7)$$

$$(-32)(-1) =$$

Evaluate the expression: x = -3, y = 4

$$\frac{X-Y+11}{2Y} \longrightarrow \frac{(-3)-(4)+11}{2(4)}$$

$$4gcf(4.8)=4=\frac{4}{8}=\frac{1}{2}$$

Q: How many large packages were shipped?

300 packages -> (\$680)

170 large: 170 · 2.55 = \$433.50 } \$654.50

680 - 654.50 = 25.50

200 large & 100 small

Evaluate:
$$\chi^{3} + 2\gamma^{2} + z^{2} + 2x - \gamma$$

Polynomial $\chi = 1$, $\gamma = -4$, $z = 3$

SOLUTION:

$$(1)^3 + 2(-4)^2 + (3)^2 + 2(1) - (-4)$$

 $(2\cdot3)$

* What if they don't give you the values of the variables?

Examples: "Solve for x, y, z" X= [

" Find the value " y =

"Simplify the expression" to combining like terms

EX: 2x+y+3x+2

5x+y+2

What if they ask you to solve for x:5x+y+2=0

4 Isolate the variables, inverse operations

$$5x+y+2-2 = 0-2$$

 $5x+y = -2$
 $5x+y-y = -2-y$
 $5x = -2-y$
 $5x = -2-y$
 $5x = -2-y$

$$(EX)$$
 $2x^3 + y^2 + 2x^2 + x$ If $x = -2$ $y = 6$

1) Plug-in the values

$$2(-2)^{3} + (b)^{2} + 2(-2)^{2} + (-2)$$

$$2 \cdot -8 = -16$$

$$(-2)^3 = -2 \cdot -2 \cdot -2$$

$$(-2)^2 = -2 \cdot -2 = 4$$

Evaluate the polynomial:

$$(2x-5)(1-4x) = 2x - 8x^2 - 5 + 20x$$

$$= 22x - 8x^2 - 5$$

$$= X \cdot 7 + X \cdot 12X + 3 \cdot 7 + 3 \cdot 12X$$

$$= 7x + 12x^2 + 21 + 36x$$

$$= 43x + 12x^2 + 21$$

* Distributive Property

$$2X \cdot 4X = 2 \cdot 4 \cdot X \cdot X$$

$$= 8 \cdot \chi \cdot \chi$$
$$= 8 \chi^2$$

$$=8x^2$$

$$-5 \cdot -4 \times = 20 \times$$

* combining like terms