

# Golden Ticket!!!

$$(x^2 + 3xy - 7) - (x^2 - 2xy + 4) \neq \overset{20}{\neq} \underline{2x^2 + xy + 3}$$

$$\cancel{x^2} + \underline{\underline{3xy}} - 7 - \cancel{x^2} + \underline{\underline{2xy}} - 4$$

$$5xy - 11$$

# Box of Chocolates!!

Group 1:

Jordan  
Bri  
Josiah  
Emalee  
Matthew

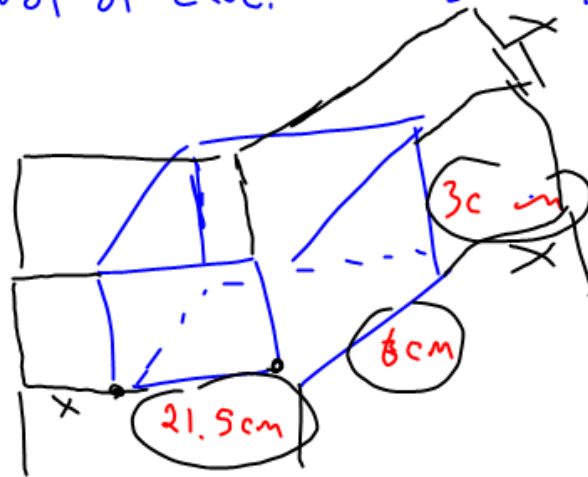
Group 2:

Karson  
Cleatus  
Alyssa  
Lexie

Group 3:

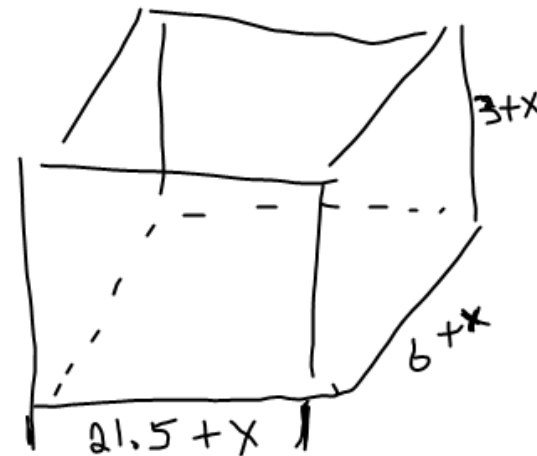
Anna Lee  
Aleesia  
Blake  
Decoda

ex:  $\overset{\text{of box}}{\text{Vol}} = \underbrace{l} \times \underbrace{w} \times \underbrace{h} = 1023 \text{ cm}^3$   
 $\text{Vol of choc.} = 91.125 \text{ cm}^3$



$$V = 21.5 \times 6 \times 3$$

$$\frac{1023}{91.125} = \textcircled{11} \dots$$



$$V = (21.5 + x)(6 + x)(3 + x)$$

3. Decide whether each function below is a polynomial. If it is, write the function in standard form. If it is not, explain why.

a.  $f(x) = 2x^3 + 5x^2 + 4x + 8$

b.  $f(x) = 2x^2 + x^{-1}$

c.  $f(x) = 5 - x + 7x^3 - x^2$

d.  $f(x) = \frac{2}{3}x^2 - x^4 + 5 + 8x$

e.  $f(x) = 2\sqrt{x}$

g.  $f(x) = \frac{1}{3x^2} + \frac{6}{x} - 2$

Polynomial	Number of Terms	Classification	Degree	Classification
$f(x) = 2$		monomial		constant
$f(x) = 3x - 1$		binomial		linear
$f(x) = x^2 - 2x + 1$		trinomial		quadratic
$f(x) = 8x^3 + 125$		binomial		cubic
$f(x) = x^4 + 10x^2 + 16$		trinomial		quartic
$f(x) = -x^5$		monomial		quintic

# Foldable

$$1: 5x^3 - 3x^2 + 7x - 4$$

$$2: x^2 + 3x - 12$$

$$3: 6y^2 - 2y - 1$$

$$4: 2c^3 + 2c^2 + 4c - 9$$

# HW #1: Adding and subtracting polynomials