

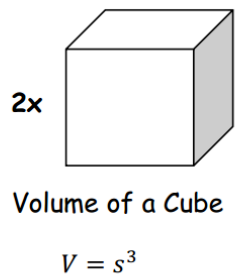
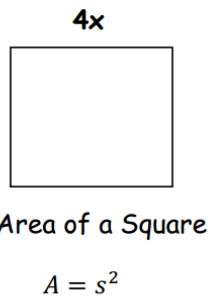
Bell Work



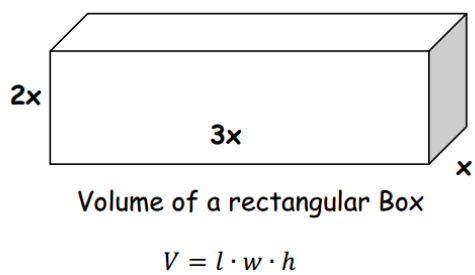
1/26/2015

Please get the assignment & get started on the 2 problems.
You may talk to one another about the problems.

$(4x)^2$
 $16x^2$



$(2x)^3 = 8x^3$



$3x \cdot x \cdot 2x = 6x^3$

This summer, Shara is looking to babysit to make some extra money. She plans to work weekdays only. She has the choice between babysitting for two families for a month.

The Pi Family offered Shara a flat \$100 stipend for gas money plus \$75 a day to babysit

The Radical Family had a different approach. Since they want to ensure Shara would stay with them for the entire month, they offered to only pay her whenever she stopped working a lump sum. She would be paid an initial amount of a penny for choosing their family, and then her pay would double each day she babysat until she decided to stop babysitting for them. (For example, she would earn \$0.01 initially, \$0.02 for the one day, \$0.04 for two days, and so on.) If at any time, she wanted to stop babysitting, they would give her the money she earned up until that point.



Radical Family

Benefits:

More money coming in

Drawbacks:

- takes longer to get more money
- less money in the beginning
- no money until you are done
- no gas money

Pi Family

Benefits:

- \$100 up front
- \$75 per day
- Money every day

Drawbacks:

- less money overall
- \$100 for gas may run out.

Radical Family

Benefits:

Drawbacks:

Pi Family

Benefits:

Drawbacks:

• more money
per day
\$100 up front

Radical Family

Benefits:

- Pay @ end
- Paid a lot more
- \$17,855.77

Drawbacks:

- No money until the end
- if something comes up and you have to quit you could have very little money

Pi Family

Benefits:

- Paid as you go.
- Money up front
- \$.75 per day

Drawbacks:

- Quit after get the \$100 (drawback for the family)

\$1600

On The Back:

Chose the family you think Shara should work for.

Support your choice with **evidence** as to why she should choose that family.