

ON YOUR OWN



You've been waiting your whole life to finally be out on your own. You just rented a new apartment that you now must furnish. Fortunately, many of your relatives have given you much of what you will need. Unfortunately, you still don't have a TV, a refrigerator, a laptop computer, or a car.

You're the type that always wants the best of everything, but now that you're on your own, can you afford the best? Based on the information in the given ads, choose the biggest/best item in each of the categories that you can afford.



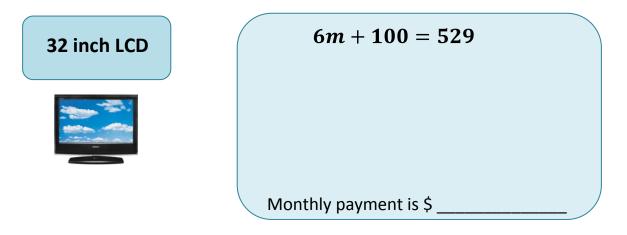


GOOD NEWS! Your grandmother just told you that she'll pay the down payment for your TV! So which TV is the biggest one that you can afford without having to pay any interest?

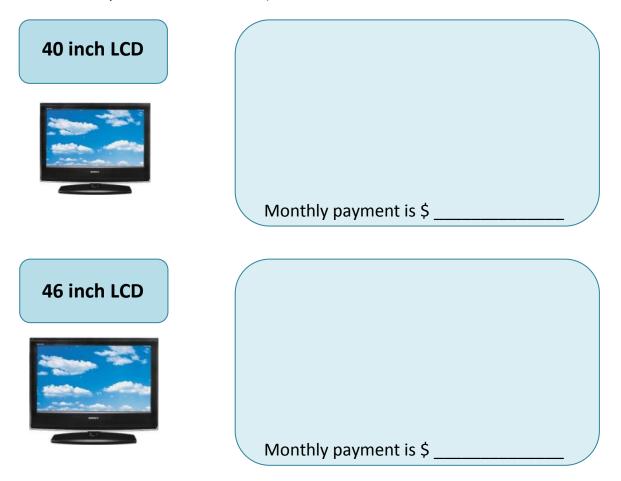
## Hint: Set up 3 separate two-step equations using the following format

# of monthy payments  $\cdot$  monthly payment (m) + grandma's down payment = total price

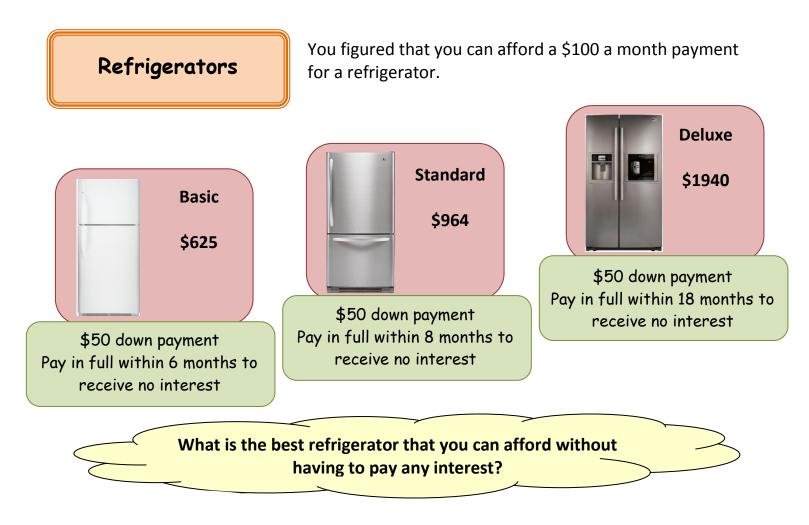
We'll set up the first one for you. You just have to solve it to figure out how much the monthly payment will be. Remember m = monthly payment amount.



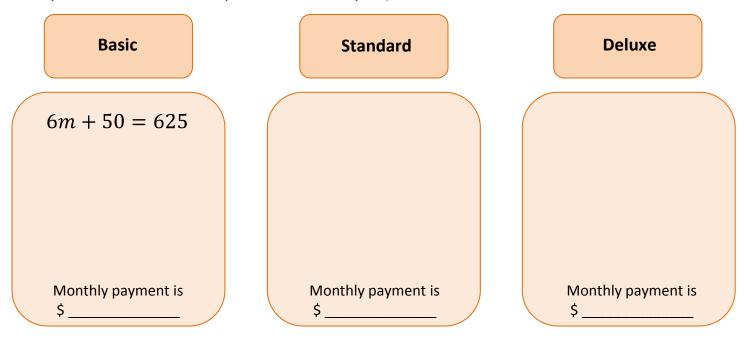
Now set up the other two equations and solve them.



So which TV is the biggest one that you can afford to pay each month without having to pay any interest?



Set up and solve three separate two-step equations.



So which refrigerator is the best one that you can afford to pay each month without having to pay any interest?



So which laptop is the best one that you can afford to pay each month without having to pay any interest?

## CAR SHOPPING!!!

It's time to get a new car! Well, actually a new, used car since that's probably all you'll be able to afford with rent, utilities, food, clothing and all the new payments for your TV, refrigerator and laptop. For your first job, you bring home \$1,450 a month. You figured that you will be able to pay 15% of that every month towards a car payment.

Good News!! Your rich Uncle Charlie said that if you put a \$200 down payment on the car, he'll pay for the rest of it so you avoid interest charges. Here's the catch. You must pay back the remaining balance of the car within 3 years and make the same payment each month during those 3 years.



Figure out which of the cars listed below you can afford using the information given by your rich Uncle Charlie. Remember, you can only afford to pay 15% of your monthly income towards a monthly car payment. What car will you pick?

Write and solve a two step equation for each of the four cars below to show what the monthly payment you would have to give to Uncle Charlie. *Hint: Think about how many months are in 3 years. Don't forget the \$200 down payment.* 



2003 Chevy Malibu \$4,200



2007 Volkswagen Passat \$9,500



2001 Pontiac Firebird Trans-Am \$7,850



2004 Silver Infinity \$13,985

What is the maximum monthly car payment you can afford if you are able to put 15% of your \$1,450 per month income towards it?



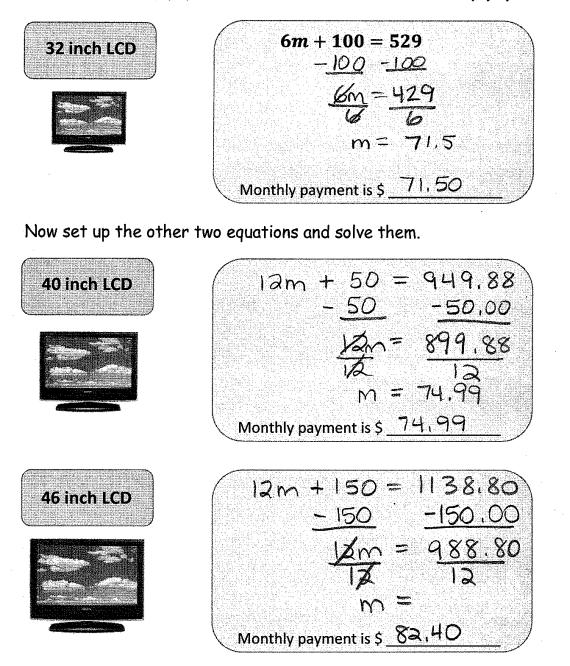
Of the cars that you can afford, which one will you pick?

KEY

Hint: Set up 3 separate two-step equations using the following format

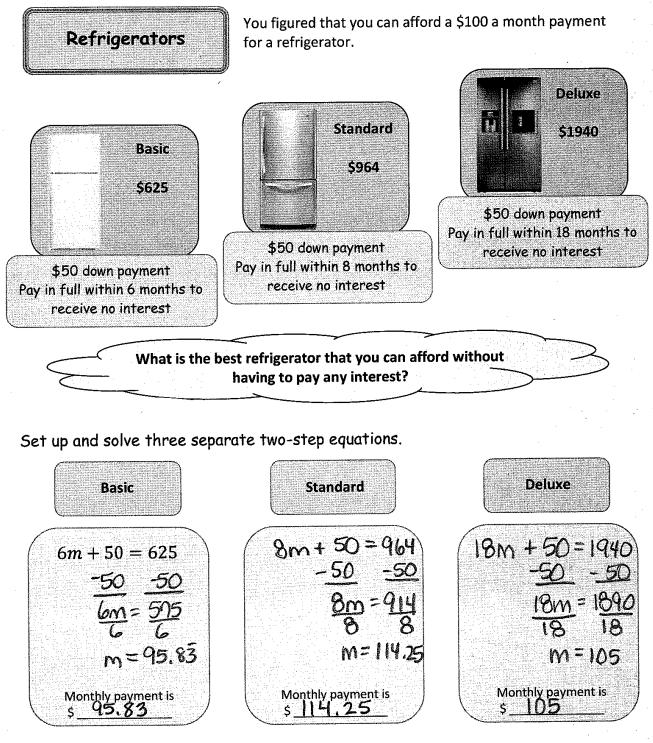
# of monthy payments  $\cdot$  monthly payment (m) + grandma's down payment = total price

We'll set up the first one for you. You just have to solve it to figure out how much the monthly payment will be. Remember m = monthly payment amount.



So which TV is the biggest one that you can afford to pay each month without having to pay any interest? <u>40 inch LCD</u>

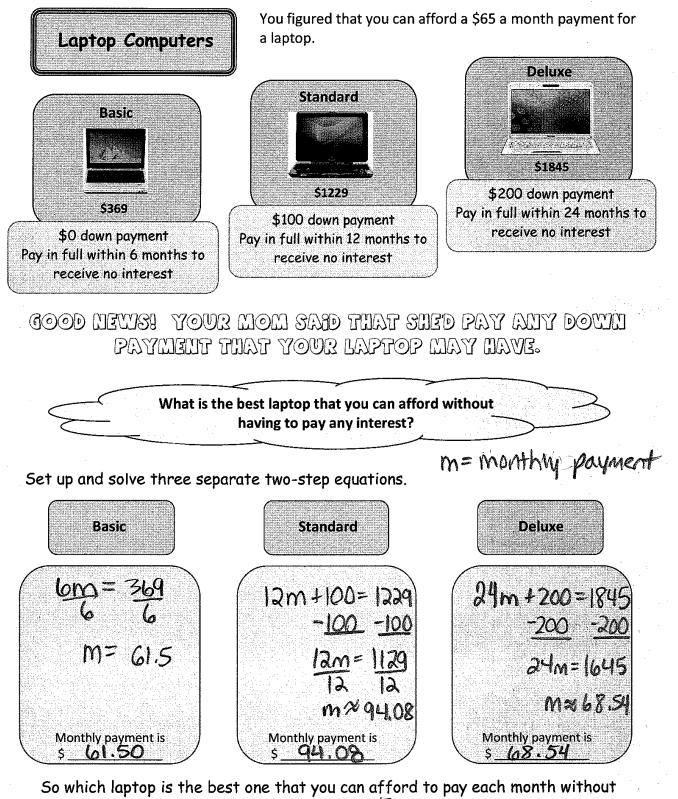
## KEY



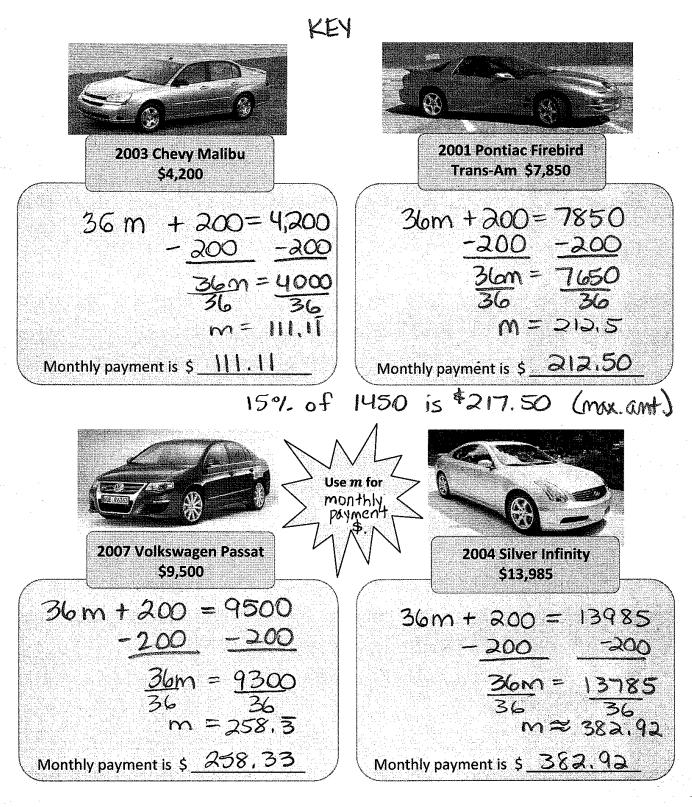
So which refrigerator is the best one that you can afford to pay each month without having to pay any interest? <u>BASIC</u>

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## KEY



having to pay any interest? \_\_\_\_\_BASIC



Of the cars that you can afford, which one will you pick? <u>Answers Will Vary</u>. (Ether Malibu or Firebird)