Today is 10/2/17
Get out a calculator and your purple note packet

Agenda:

Brain teaser

Estimating Percents

Lesson 2: Estimating Percentages

Most of the time in life, you will estimate percents. You probably won't bust out a pen and paper every time you need to pay a tip or figure out the discount on a shirt. If you get good at estimating percents, you'll get close enough.

% Trick		$72.38	$58.20	$26.00	$5.55	$123.33
10%	Move decimal point one place to the left	7.238 7	6	3	.5	12
5%	Find 10% then divide by 2 (cut in half)	3.50	3	1.5	.25	6
15%	Find 10% and 5% and add together	10.50	9	4.5	.75	18
20%	Find 10% then double	14	12	6	1	24
25%	Find 20% and 5% and add together Or Round to a # divisible by 4 and divide amount into fourths	17.50	15	7.5	1.25	30
50%	Divide by 2 (cut in half) **or (double 25%)**	36 35	30	15	2.5	60

Practice:

Attempt these real-world problems using MENTAL MATH (no calculator!):

1. A car salesman sells a 2015 Chevy Cobalt for $12, 500. If he earns a 20% commission, how much money will he make off of this sale?

   10% is 1250 x 2 = $2500

2. David pays 25% income tax on his $2,100 salary
   a. How much is the tax?
      Half of 2100 is 1050
      Half of 1050 is 525
      $525
   b. How much money does he have left after paying the tax?
      2000-500=1500
      100-25=75
      $1575

3. On her cell phone bill, Hannah notices that of the 340 text messages that she sent last month, 10% were sent at the cheaper night rate. How many messages did Hannah send at night? During the day?

   10% of 340 = 34 at night
   340 - 34 = 306 during day

4. You and your family went out to dinner at Outback to celebrate your graduation. The bill came to $126.74. You notice your family members struggling to determine an appropriate TIP. You save the day by using your mental math skills to calculate the TIP to be $25. Everyone thanks you and you feel proud!

Preview of next lesson

https://www.youtube.com/watch?v=rR95Cbcjzus