

Today is 10/11/17
Get out Note packet and calculator
Check School tool to make sure 5-week
grades are correct

Agenda:
Brain Teaser
More Review

End of unit today -
Quiz Tomorrow!
(5 questions)
along with Payday

<https://www.youtube.com/watch?v=WjRhN0ZZTow>



Lesson 6: Just when you thought the unit was over...MORE % Problems

1. You landed a fabulous summer job working as a sales assistant at Shmacy's. You earn a 4% commission on every sale you make, in addition to your wage of \$8.50/hour. After a long seven-hour shift, your sales totaled \$1250. What are your total earnings for that shift?

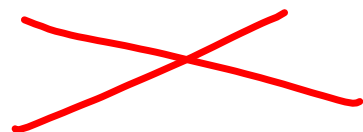
$$\begin{aligned}(8.50)(7) &= 59.50 \\ (1250)(.04) &= \underline{50.00} \\ &\$109.50\end{aligned}$$

2. The Sports Shmauthority is having an amazing sale on all of their winter gear, 65% off the regular price. You find the snowboarding jacket that you have been wanting for the past year. It was \$220 before the sale. How much is it now?

$$\begin{aligned}(.65)(220) &= 143 \\ 220 - 143 &= \$77\end{aligned}$$

3. All sweaters are 30% off of the original price. You, being the clever shopper you are, also have a coupon for 15% off any item, including sale items. How much does a \$75 sweater cost?

$$\begin{aligned}(.30)(75) &= 22.50 \\ 75 - 22.50 &= 52.50 \text{ sale price} \\ (.15)(52.50) &= 7.88 \\ 52.50 - 7.88 &= \$44.62\end{aligned}$$



4. Sweet! Jeans at American Shmeagle are 40% off. How much will you pay for a pair of jeans that were originally \$80? (don't forget the 9.25% sales tax)

Look Out: always calculate the discount before adding in the sales tax

$$(.40)(80)=32$$

$$80-32=\$48$$

$$(.0925)(48)=4.44 \text{ tax}$$

$$48+4.44=\$52.44$$

14

5. You invest \$200 in a savings account that earns 4% interest *each year*. If you do not touch the account for three years, how much money will you have in your account after those three years? **Simple interest**

$$I=prt=(200)(.04)(3)=24$$

$$\text{Total} = 200+24=\$224$$

$$I = prt$$

6. After a particularly nice lunch, your bill comes to \$44.75. You and your two friends split the bill equally. How much do you each owe? (Don't forget to add in a 20% tip!)

$$(44.75)(.20)=8.95$$

$$44.75+8.95=53.70$$

$$53.70/3=\$17.90 \text{ each}$$