

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

Agenda:
Brain Teaser
Review Questions

End of unit tomorrow -
Quiz Thursday
(5 questions)
along with Payday!

Lesson 5: Mixed Percent Problems**Look at mental math first!**

1. At Best Buy you found the DVD you've been looking for marked \$15. You noticed a sale sign that said "10%" off. What was your discount? How much do you have to pay for the DVD?

$$10\% \text{ of } \$15 = \$1.50$$

$$\$15 - \$1.50 = \textcircled{\$13.50}$$

2. You found a dress marked \$40 at Kohl's. You have a coupon for 25% off. What is the price of the dress? How much did you save?

$$\frac{1}{4}(40) = \textcircled{10}$$

$$40 - 10 = \textcircled{30}$$

$$\frac{1}{2}(40) = 20 \quad \frac{1}{2}(20) = 10$$

10%	15	4	} \$10
10%	15	4	
5%	15	2	

3. Tops is having a sale on soda this week. All 12-packs are marked down 20%. What is a 12-pack of Mountain Dew that normally sells for \$4.99?

$$.20(4.99) = .998 = 1.00$$

$$4.99 - 1.00 = \$3.99$$



4. Sal's is having a Tuesday special this week. Buy one pizza get one half off. You buy two cheese pizzas that are normally \$16 each. How much would you pay? What percent did you save?

Normally you would pay $16+16=32$ $\$16 + \$8 = \$24$



Saved \$8, so $\frac{\$8}{\$32} = \frac{1}{4} = 25\%$

5. Out of the 165 students who took the Geometry Regents examination, 76% passed. How many students passed? How many did not pass?

$$(.76)(165) = 125.4$$

Passed - 125 Students
Failed 40

$$\begin{array}{r} 165 \\ -125 \\ \hline 40 \end{array}$$

12

6. You ate at the Dinosaur last night. Your meal was \$25. You were impressed with your service. How much should you tip?



$$(20\%)(\$25) = \$5.00$$

$$(\$25)(.25) = \$6.25$$

7. You had dinner with a friend at The Retreat last night. The bill came to \$36. You tipped 20%. How much was the TIP? What was the total?

$$10\% = \$3.60 \quad \times 2 = \$7.20$$

$$20\% \text{ of } 36 = \$7.20$$

$$\begin{array}{r} 36.00 \\ 7.20 \\ \hline \$43.20 \end{array}$$

8. You bought a pair of shoes at Zappos for \$85. The next week you saw them at the mall for \$70. What percent could you have saved by buying at the mall?

$$\begin{array}{r} 85 \\ - 70 \\ \hline 15 \end{array}$$

$$\frac{15}{85} = .176 \approx 17.6\%$$

$$\approx 18\%$$

9. You see a car that you want that has a sticker price of \$12,999. Will you pay this amount? What are some additional costs to consider? Calculate those costs.

Reg fee (DMV)
Plates
Insurance

Substar 8%

$$(12,999 \times 0.08) = \$1,039$$

$$\begin{array}{r} 12,999 \\ 1,039 \\ \hline \$14,038 \end{array}$$

