## I am Atul Roy

your assistant for this evening

A problem like #54 on the Review

Jill purchased 4 shirts for \$19.99 each, 2 pants for \$29.99 each, and some candies for \$.79. If the sales tax is 5%, how much was her total bill?

4 shirts:  $4 \times 19.99 = 79.96$ 2 pants:  $2 \times 29.99 = 59.98$ candies: .79 = .79

Total price: \$140.73

Tax @5%  $140.73 \times .05 = 7.0365$ 

Total bill:

Price+Tax = 140.73 + 7.04 = \$147.77

work on the actual #54 please

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An example like #55

75% of the fruits in a fruitbasket are oranges. A bruit basket has 60 fruits. Find the number of oranges in this basket.

75% of 60 is  $.75 \times 60 = 45.0$  oranges

Actual #55

70% of 120 is  $.70 \times 120 = 84.0$  multiple choice

An example like #56

Alisha sold her house for \$475,000

She has to pay a commission of 6.5% to the selling agent. (proportion 0.065)

How much commission does Alisha have to pay? How much of \$475,000 does Alisha get?

Solution:

Commission is  $.065 \times 475000 = \$30875.00$ 475000 - 30875 = \$444, 125 left for Alisha

## Actual #56

$$7\frac{1}{2}\%$$
 is 7.5% is  $\frac{7.5}{100} = 0.075$   
 $140000 \times .075 = $10,500.00$ 

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## An example like #57

Homa is driving through a large state on a highway. She stops at a gas station, buys a pack of crackers for a price of \$2.99 and it shows a sales tax of \$0.21. What is the rate of sales tax in this state?

$$\frac{.21}{2.99} = .0702$$
 7.02%

actual #57

$$\frac{756}{12000} = 0.063$$
**6.3%**

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## An example like #58

A certain make of computer depreciates 45% in price each year. Jacob bought this computer for \$1500 one year ago. What is the price of Jacob's computer this year?

depreciation:  $1500 \times .45 = 675.0$ 

Price now, 1500 - 675 = \$825

Actual #58

Depreciation:  $.25 \times 35000 = \$8750.0$ 

Price at the end of one year 35000 - 8750 = \$26,250

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An example like #59

Gail received a 12% raise this year. Gail's salary last year was \$96,500. What is Gail's salary this year?

Raise:  $.12 \times 96500 = $11580.00$ 

This year's salary is 96500 + 11580 = \$108,080

Actual #59

$$80 \times .15 = 12$$

this month: 80 + 12 = 92

An example like #60

There are 2500 residents in a community

1600 of the residents are whites, what % is this?  $\frac{1600}{2500} = 0.64$  is 64% 400 of the residents are African Americans, what % is this?  $\frac{400}{2500} = 0.16$  is 16% 300 of the residents are Hispanics, what % is this?  $\frac{300}{2500} = 0.12$  is 12% 175 of the residents are Asians, what % is this?  $\frac{175}{2500} = 0.07$  is 7% 25 of the residents are Native Americans, what % is this?  $\frac{25}{2500} = 0.01$  is 1%

actual #60

$$\frac{21}{600} = 0.035$$
 is 3.5%  $\frac{180}{600} = 0.3$  is 30%

150 are SUV, 600 - 150 = 450 NOT SUV

percentage that is NOT SUV are  $\frac{450}{600} = 0.75$  75%

OR do it the Kojo's way

$$\frac{150}{600} = 0.25$$
25% are SUVs
75% are NOT SUVs

An example like #41

 $\left(\frac{2}{9}\right)^{th}$  of the candies in a bag are red. The bag has 180 candies. How many of these 180 are red?

$$\left(\frac{2}{9}\right)$$
 of 180 is  $\frac{2}{9}\times180$  the same as  $\frac{2}{9}\times\frac{180}{1}=\frac{2\times180}{9\times1}=40$ 

40 red

Kojo's way, if the number of red candies is x

$$\left(\frac{2}{9}\right)180 = x$$

$$\frac{360}{9} = x$$

$$40 = x$$