Excel & Business Math Video/Class Project #17 Business Math Word Problems with Fractions

Topics

1)	Example 1 From Video:	1
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1) Example 1 From Video:

1	A	В	C D	E F	G	H I	J		
1	An experiment done with 600 smokers was conducted								
2	Gum' could help people quit. After 4 months, 2/3 of the smokers were still smoking. Rounding to the								
3	3 nearest whole number, how many smokers in the experiment stopped smoking?								
4									
5	1) Lists Facts			2) What is Goal?					
6	Smokers in Experiment = Whole	600		Determine # of smokers in experiment who o	uite smoking				
7	Fraction of Smokers still smoking (Part 1)	2/3							
8	Requirement:	ment: Round Answer to nearest whole number (ones position - dollar)							
9	Excel Requirement:	ROUND fui							
10									
11	2) Solve using Efficient Excel Methods			4) Check Answer					
12	Number of Smokers who did NOT stop smoking	400	=B6*B7	Smokers in Experiment = Whole	600	=SUM(B12:B1			
13	Number of Smokers who DID stop smoking	200	=B6-B12						
14				Fraction of smokers who stopped smoking	1/3	=1-B7			
15				Number of Smokers who DID stop smoking	200	=G14*B6			
16									
17				Check ✓					
18	5) Give a written answer for your answer								
19	After 4 months, 200 of the total 600 smokers stopped	smoking.							
20									

2) Example 2 From Video:

1	A	В	C	D	E	F	G	Н	I
1	The utility company says that the cost of open	erating a hair	dryer is	3/10 ¢ per n	ninute.				
2	Find the cost of operating the hair dryer for	30 minutes.							
3	20 800 500		~ 1						
4									
5	1) Lists Facts				2) W	hat is Goal?			
6	Cost of operating a hair dryer per minute	3/10 ¢			Find	Total Cost of running hair dr	ing hair dryer for 30 mins.		
7	Total Minutes that Dryer Ran	30	mins						
8	Fraction of Penny	3/10							
9									
10									
11									
12									
13	2) Solve using Efficient Excel Methods				4) Ch	eck Answer			
14	1 Penny listed in units of dollars	\$0.01			Total	Minites	30	=B1	7/B16
15	Fraction of a Cent	0.3		=3/10					
16	3/10 ¢ in dollar units	\$0.003		=B15*B14	Answ	er in pennies	9	=B7	*B8
17	Total Cost for running H.D for 30 Mins	\$0.09		=B16*B7					
18									
19	5) Give a written answer for your answer								
20									
21	The total cost of running hair dryer for 30 mir	s is \$0.09 (9 p	ennies)						

Step1: List Facts cost of operating hair dryer per minute = 7 ¢ Total Time running hair dryer = 30 min. Find total cost to run hair dryer for 30 Min. Step3: solve $\frac{3}{10}4 = \frac{3}{10} * (penny) = 10 | 3.0 * (penny) = (0.3 ¢$ Because (penny) = \$ 0.01, we can also make calculation in & units: $\frac{3}{10} * $0.01 = \frac{3}{10} * $100 = \frac{3 * $100}{10 * 100} = \frac{33}{1000} = \frac{33}{100$ Hundredth $= 1000 \boxed{$3.000} = ($0.003)$ $\frac{3}{10} t = 0.3 t = 0.003$ We can use? Tany one of these for our step 4: check Step 5: The total cost is 9 ¢. 49: 3/10 = x9 * 1min = 9min = 9min = 9min = 30min V