GroupWork 2.7 6-25-12

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NOTE: These questions are borrowed from Beginning Algebra by Elayn Martin-Gay

- 1. Find the following quantities:
 - (a) Find 16% of 70 11.2
 - (b) Find 88% of 1000 550
 - (c) 87 is what percent of 436? 19.95%
 - (d) 126 is 35% of what number? 360
 - (e) 45 is 25% of what number?
- 2. An automobile dealership recently reduced the price of a used compact car by 8%. If the price of the car before the discount was \$18,500, find the discount and the new price..

3. A music store is having a 25% off sale on all new albums. Find the discount and sale price if a newly released album costs \$16.

Consider two right triangles: Triangle A has legs of length 3 and 4. Triangle B has legs of length 6 and 8. So we see that B is obtained from A by doubling the leg length. By what percent did we increase the leg length to obtain B? By what percent does the area of A increase when we double the leg lengths?

SKIP

5. How much of an alloy that is 20% copper should be mixed with 200 oz. of an alloy that is 50% copper in order to get an alloy that is 30% copper?

Amount	%Copper		.20x + 100 = .30(200+x)
× 200	,20	.20x	
200+x	.30	.30(200+x)	X = 4000z

6. How much water should be added to 30 gallons of a solution that is 70% antifreeze in order to get a

0+21=.60(30+x) X=5 gallons mixture that is 60% antifreeze? Amount of Antifreezo