Proportional Relationships Test Review

1. In Missouri, the sales tax rate is 6.875%. If an iPad costs $300, how much would the overall purchase cost be including tax?

Answer: $320.63   (100%+6.875%) x 300 → 1.06875 x 300

2. Mr. Smith earns a 12% commission on the sales that he makes. If he made $1500 in sales, how much would he earn in commission?

Answer: $180   12% of $1500→ .12 x 1500

3. If your principal amount was $350 and the interest rate was 5%, how much interest would you earn after 3 years?

Answer: $52.50   I= P x r x t   I= $350 x .05 x 3

4. Sneakers are normally $90. On sale, they are marked down to $56.49. What percent <u>off</u> is the sale price?

Answer: 37.2% off $90-$56.49=$33.51→ $33.51 / $90= 37.2%

5. Your restaurant bill is $72.34. How much would a 20% tip be?

Answer: $14.47   20% of $72.34→ .2 x $72.34= $14.47

6. Rebecca earns $4250 per month. If 24% is taken out for income tax, how much is her take-home pay?

Answer: $3230   100%-24%= 76% → .76 x $4250= $3230

7. The scale factor for a toy train is 1:40. If the toy is 10 inches long, how long is the actual train?

Answer: 400 in.   10 x 40 = 400 inches