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Algebra & Functions (Maths 201–016)

- 1. The store where I bought my new shoes marks up their products by 20%. If I paid \$48 for these shoes, how much did the store pay for them?
- 2. I went to the convenience store and bought a bag of organic milk. It cost me \$7.50, but I know that the store only paid \$6. What is the store's markup rate for organic milk?
- 3. A pair of shoes is on sale for 35% off. If they usually cost \$300, what is the sale price?
- 4. If I invest \$1000 and earn \$475 in interest after 5 years, what was the (simple) interest rate (per year)?
- 5. After a 15% increase, a town has 2300 people. What was the population before the increase?

Answers

1. 40 2. 25% 3. 195 4. 9.5% 5. 2000

Hints: the relevant equations that have to be solved are these:

- 1. 48 = C + .20C
- 2. 7.50 = 6 + 6MR
- 3. $SP = 300 .35 \times 300$
- 4. 475 = 5000r
- 5. 1.15P = 2300