Applications of Percents (Part I)

Statement: "P% of B is A" or A is P% of B

Formula: \[ \frac{A}{B} = \frac{P}{100} \]

Steps:

1. What appears after "of"? \( \rightarrow \) That is "B"
2. Which number is with "%" symbol? \( \rightarrow \) That is "P"
3. What is the number you didn't use in steps 1 and 2? \( \rightarrow \) That is "A"
4. Solve the proportion using cross products.

1. Find 60% of 320.

2. 35% of what number is 28?

3. What percent of 60 is 9?
4. $35 is 14% of what amount?

5. What percent of 285 is 114?

6. Of the 294 million people in the United States, 26% are smokers. How many are smokers?

7. In 2003, 705,827 immigrants entered the United States. Of this total, 7.1% were from India. How many immigrants came from India?
8. On a test of 80 items, Pedro got 85% correct. How many items did he get correct?

9. In a medical study, it was determined that if 800 people kiss someone who has a cold, only 56 will actually catch a cold. What percent is this?

10. Last night 530 people attended a basketball game. It was announced that 68% of the seats were filled. What is the full capacity of the gym?