Math 155 - Day #5: Percents

We often hear the word percent: what does it mean? Percent means "per 100" (Think of 100 cents in a dollar) Example 1: In a group of 300 people, 20% drank coffee this morning How many people from the group drank coffee? We know that 20% - 20 per 100 - drink coffee So, we need to know how many hundreds there are! Just the way we say the word 200, it's clear that we have 3 But computationally, we see how many 100's by dividing by 100 In this case: $\frac{300}{100} = 3$ Finally, for each 100, 20 per 100 drank coffee So, $3 \times 20 = 60$ people drank coffee this morning. Notice that our computation was to multiply by 20 and divide by 100 Equivalently, we multiplied by 20/100 - 20 per cent $300 \times \frac{20}{100} = 60$

Math 155 - Day #5: Percents Example: Find 15% of 200

Example: Find 15% of 60

Observation: We write 15% as $\frac{15}{100}$ Doing that computation alone, we find that $15\% = \frac{15}{100} = .15$

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Example: Suppose that at a college of 5000 students, 75% are registered to vote. How many students at the college are registered to vote?

Example: Suppose that you borrow \$500 from a friend as a loan. You agree to pay back the \$500 plus an additional 10%. How much did you agree to pay them back in total?

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Try these examples on your own: What is 5% of 600?

What is 6.5% of 600?

Suppose that you invest \$200 into a CD at a local Credit Union and earn 3% interest in a year. How much interest do you earn in a year?

Suppose that you invest \$20000 into a CD at a local Credit Union and earn 3% interest in a year. How much interest do you earn in a year?

Suppose that you invest \$2000000 and earn 3% interest in a year. How much interest do you earn in a year?