

Time and Money: *It's a Matter of Math*

Bailey of The Conversions loves percents and uses them to understand how her band divides up its time and money.

Answer the questions to get more practice understanding percents and how they convert into decimals and fractions. Show fractions in lowest terms or reduced forms.



1. Bailey believes in the power of math to figure out how the band spends its time. Currently, the band spends 12 days out of a 30-day month practicing. How much of the month do they rehearse in terms of percents, decimals, and fractions?

Percent	Decimal	Fraction

2. Bailey thinks the band sounds good, but they would sound even better if they practiced more. She thinks they should spend at least 50% more time rehearsing. If the band followed this plan, how much of the month would be spent rehearsing?

Percent	Decimal	Fraction

3. If the band currently earns \$50 a show and their income is \$400, what percent of their income are they earning per show? Express your answer as a percent and then convert it to a decimal and fraction. **Hint:** You can determine the percent by setting up a proportion of two equal ratios. $50/400 = x/100$. Or you can use a simple equation of $50 \div 400 = x$ to create a decimal. Then, multiply your decimal answer by 100 to arrive at the percent.

Percent	Decimal	Fraction

4. The band plays a show one week to a room that is 70% full, or 42 people. The next week, The Conversions announce that they will play the same room, but will give away a free CD to each attendee. Tickets sell beyond capacity and the crowd reaches 105%. How many people are there? Use your knowledge of ratios, proportions, and cross multiplication to figure out the answer. **Hint:** First, figure out how many people make a full house.