FIBONACCI RETRACEMENTS

When a currency pair reverses trend, forex traders naturally want to know how far the pair is most likely to move in its new direction. Fibonacci retracement levels can help. Certain Fibonacci ratios are useful when you are trying to determine how far a currency pair is going to retrace, or move against, a previous trend.

The ratios you will be using in your forex trading will help you find the following retracement levels:

- **61.8 percent**—This level is found by dividing a number in the Fibonacci sequence by the number immediately following it in the sequence \((55 \div 89 = 61.8\%)\).

- **38.2 percent**—This level is found by dividing a number in the Fibonacci sequence by the second number following it in the sequence \((34 \div 89 = 38.2\%)\).

- **23.6 percent**—This level is found by dividing a number in the Fibonacci sequence by the third number following it in the sequence \((21 \div 89 = 23.6\%)\).

You will also use three other levels in your retracement analysis. While the following levels are not calculated using numbers within the Fibonacci sequence, they are based on the Fibonacci levels above:

- **50 percent**—This level is determined by finding the middle between 61.8 percent and 38.2 percent \(((61.8\% + 38.2\%) \div 2 = 50\%)\).

- **76.4 percent**—This level is determined by finding the distance from 38.2 percent and 23.6 percent \((38.2\% - 23.6\% = 14.6\%)\) and adding it to 61.8 percent \((61.8\% + 14.6\% = 76.4\%)\).

- **100 percent**—This level is determined simply by finding where the previous trend began.

Determining all six Fibonacci retracement levels provides you with potential support and resistance levels you can use in your forex trading. You can see these Fibonacci levels on the daily GBP/USD chart below. Each of the illustrated levels was calculated based on the trend highlighted by the red arrow. You could have used each level to help you determine when to enter and exit your trades as the currency pair began to turn around and move lower.
Notice how the price of the currency pair moved back and forth, bouncing off of these support and resistance levels for months until finally breaking back up above the high established by the previous trend (also known as the zero percent level) in late October.

**FIBONACCI PROJECTIONS**

Trends never go straight up or straight down. Trends move in one direction initially, then they pull back and move in the opposite direction for a while and then they turn around and resume moving in the previous direction. This is the natural ebb and flow of a trend.

When a currency pair resumes its previous trend, forex traders naturally want to know how far the pair is most likely to continue moving. Fibonacci projection levels can help. Certain Fibonacci ratios are useful when you are trying to determine how far a currency pair is going to move once it resumes its previous trend.

The ratios you will be using in your forex trading will help you find the following projection levels:

- **161.8 percent**—This level is found by dividing a number in the Fibonacci sequence by the number immediately preceding it in the sequence ($89 \div 55 = 161.8\%$).

- **261.8 percent**—This level is found by dividing a number in the Fibonacci sequence by the second number preceding it in the sequence ($89 \div 34 = 261.8\%$).

- **423.8 percent**—This level is found by dividing a number in the Fibonacci sequence by the third number preceding it in the sequence ($89 \div 21 = 423.8\%$).

Determining all three Fibonacci projection levels provides you with potential support and resistance levels you can use in your forex trading.

You can see these Fibonacci levels on the daily GBP/USD chart below. Each of the illustrated levels was calculated based on the trend highlighted by the red arrow. Now that the GBP/USD has resumed its up trend, you can use each level to help you determine where to set your profit targets (potential exit levels) as you buy this currency pair.
Notice that the currency pair, based on the previous trend, has the potential to move up to the 161.8 percent projection level in the near future. If it reaches this level, you could set the 261.8 percent projection level as your next profit target level.

**FIBONACCI FANS**

Fibonacci levels provide diagonal levels of support and resistance as well as horizontal levels of support and resistance. The diagonal levels of support and resistance are called Fibonacci fans.

Fibonacci fans are based on three Fibonacci retracement levels—61.8 percent, 50 percent and 38.2 percent. To construct a Fibonacci fan, you have to do the following:

1. Identify a trend.
2. Identify the three horizontal Fibonacci levels (61.8 percent, 50 percent and 38.2 percent) as they relate to that trend.
3. Draw a vertical line that crosses through these levels at the point where the trend ended.

4. Draw three lines, each one beginning where the trend began and crossing through a separate point where the vertical line intersects one of the Fibonacci levels.

Now that you have your Fibonacci fans drawn, you can use them to project potential support and resistance levels that you can use in your forex trading.

You can see a Fibonacci fan on the daily GBP/USD chart below. Each of the illustrated levels was calculated based on the trend highlighted by the red arrow. You could have used the rays from the fan to help you determine when to enter and exit your trades as the currency pair began to turn around and move lower.
Notice how the price of the currency pair bounced off of the middle ray of the Fibonacci fan for a while in early August before it broke through that level and began bouncing off of the bottom ray of the fan for a few days.

It is also interesting to see that the levels created by the Fibonacci fan continue to be a factor far into the future. You can see how the GBP/USD bounced down after hitting the bottom ray of the fan four months later in November.
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