

Assignment for Week 6
Oscillators, Bollinger Bands & Fibonacci

Choose the correct answer by *highlighting* it

Oscillators

1. Relative Strength Index (RSI)

1. The Relative Strength Index (RSI) typically uses a lookback period of:

- a) 7 days
- b) 14 days**
- c) 30 days
- d) 50 days

2. An RSI value above 70 typically indicates:

- a) Overbought conditions**
- b) Oversold conditions
- c) Bullish momentum
- d) Bearish momentum

3. Which value of RSI is typically considered oversold?

- a) Below 70
- b) Below 50
- c) Below 30**
- d) Below 10

4. A divergence between RSI and price movement is often considered a signal of:

- a) Continuation
- b) Reversal**
- c) Breakout
- d) Trend strengthening

5. RSI is classified as which type of indicator?

- a) Trend-following indicator
- b) Volatility indicator
- c) Momentum oscillator**
- d) Volume-based indicator

2. MACD (Moving Average Convergence Divergence)

6. MACD is the difference between which two moving averages?

- a) 9-day EMA and 12-day EMA
- b) 12-day EMA and 26-day EMA
- c) 9-day EMA and 21-day EMA
- d) 26-day EMA and 50-day EMA

7. A buy signal in MACD is typically generated when:

- a) The MACD line crosses above the signal line
- b) The MACD histogram is below zero
- c) The price is above the MACD line
- d) The RSI is above 70

8. The MACD histogram represents the difference between:

- a) The price and the MACD line
- b) MACD line and signal line
- c) MACD line and RSI
- d) MACD line and moving averages

9. A bearish MACD signal occurs when:

- a) The MACD line crosses below the signal line
- b) The MACD histogram is positive
- c) The RSI is below 30
- d) Price is above the pivot point

10. The signal line in MACD is:

- a) A 9-period moving average of the MACD line
- b) A 14-period simple moving average
- c) A 20-period exponential moving average
- d) A 50-period weighted moving average

Bollinger Bands

11. What do Bollinger Bands primarily measure?
- a) Volume
 - b) Trend
 - c) Volatility
 - d) Momentum
12. Bollinger Bands typically consist of how many lines?
- a) One
 - b) Two
 - c) Three
 - d) Four
13. The default setting for the standard deviation in Bollinger Bands is:
- a) 1
 - b) 2
 - c) 1.5
 - d) 2.5
14. What is the middle line in Bollinger Bands?
- a) 50-day Moving Average
 - b) 100-day Moving Average
 - c) Exponential Moving Average
 - d) Simple Moving Average
15. When the price touches the upper Bollinger Band, it is often considered:
- a) Overbought
 - b) Oversold
 - c) In a downtrend
 - d) In a flat trend
16. Bollinger Bands are most effective when:
- a) The market is trending strongly
 - b) The market is in a range
 - c) The market is highly volatile
 - d) The market is stagnant
17. A "Bollinger Squeeze" indicates:
- a) A potential breakout
 - b) Market exhaustion
 - c) A continuation of the trend
 - d) A reversal

18. Bollinger Bands widen when:

- a) The market is less volatile
- b) The market is more volatile
- c) Volume decreases
- d) Volume increases

Fibonacci Retracement

19. Which of the following are common Fibonacci retracement levels?

- a) 10%, 20%, 50%
- b) 23.6%, 38.2%, 61.8%
- c) 25%, 50%, 75%
- d) 15%, 30%, 45%

20. Fibonacci retracement levels are used to:

- a) Identify trend direction
- b) Identify support and resistance levels
- c) Measure market volume
- d) Calculate moving averages

21. What is the most commonly used Fibonacci retracement level that indicates a potential deep correction?

- a) 23.6%
- b) 50%
- c) 61.8%
- d) 76.4%

22. Fibonacci levels are derived from the Fibonacci sequence, where each number is the sum of:

- a) Two preceding numbers
- b) Three preceding numbers
- c) Four preceding numbers
- d) The current price and previous price

23. When drawing Fibonacci retracement on a downtrend, you start from the:

- a) Lowest point to highest point
- b) Highest point to lowest point
- c) Middle point of the trend
- d) End of the trend

24. A reversal from the 38.2% Fibonacci retracement level suggests:

- a) A shallow pullback
- b) A deep correction
- c) A strong breakout
- d) A continuation of the trend

25. What combination of technical tools works best with Fibonacci retracement for confirmation?

- a) Bollinger Bands
- b) Moving Averages
- c) MACD and RSI
- d) Volume analysis