

Task Title: Predicting Outcomes using Team Statistics

# OALCF Cover Sheet – Practitioner Copy

**Learner Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date Started: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date Completed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **Goal Path:** | Employment | Apprenticeship |
| Secondary School | Post Secondary | Independence |

**Successful Completion:**  Yes No

**Task Description:** The learner will analyze and calculate statistics to make predictions about which team will win games.

**Main Competency/Task Group/Level Indicator:**

* Understand and Use Numbers/Manage data/C4.3

**Materials Required:**

* Pen/pencil and paper and/or digital device
* Calculator or digital device with calculator function

# Learner Information

Sports enthusiasts like to make predictions on whether certain teams will win or not based on team and player statistics.

Review the “**Statistics Legend**” and the “**2024-2025 NHL Regular Season End Statistics**”.

Show all your calculations for this Task Set.

**Statistics Legend**

|  |  |  |  |
| --- | --- | --- | --- |
| **GP** | Games Played | **SOL** | Shootout Losses |
| **W** | Wins | **Home** | Home Record |
| **L** | Losses | **Away** | Away Record |
| **OTL** | Overtime Losses | **Away** | Away Record |
| **PTS** | Points | **GF** | Goals For |
| **RW** | Number of Regulation Wins | **GA** | Goals Against |
| **ROW** | Number of Regulation and Overtime Wins | **DIFF** | Goal Differential |
| **SOW** | Shootout Wins | **L10** | Last 10 Games |

A table with numbers and numbers

AI-generated content may be incorrect.**2024-2025 NHL Regular Season End Statistics**

# Work Sheet

**Task 1: If Montreal is playing Tampa Bay and the game goes into overtime which team will likely win based on the number of OT losses?**

Answer:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task 2: If Tampa Bay has played in 15 overtime games and Montreal has played in 12 overtime games, which team will likely win based on the OT percentage losses?**

Answer:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task 3: If the Vegas Golden Knights play the Florida Panthers in the first round of playoffs, who will most likely win based on the percentage of wins using the L10 stat.**

Answer:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task 4: Winnipeg will play Calgary in the playoff round. Using the GF (Goals For) for both teams calculate the average goals per game played and predict who will win the game.**

Answer:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task 5: Analyze the goal differential (DIFF) for Ottawa Senators compared to the DIFF for the Minnesota Wild to determine how this may affect the outcome of the game.**

Answer:

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# Answers

**Task 1: If Montreal is playing Tampa Bay and the game goes into overtime which team will likely win based on the number of OT losses?**

Answer: Tampa Bay has 8 OT losses and Montreal has 11 OT losses. Based on this, it is reasonable to assume Tampa Bay should win.

**Task 2: If Tampa Bay has played in 15 overtime games and Montreal has played in 12 overtime games, which team will likely win based on the OT percentage losses?**

Answer: OT losses/total OT games played = OT percentage losses

Tampa Bay has lost 8 out of 15 OT games = 8/15 = .533 = 53% losses

Montreal has lost 11 out of 12 OT games = 11/12 = .916 = 92% losses

Tampa Bay will likely win since Montreal’s OT percentage losses higher at 92%

**Task 3: If the Vegas Golden Knights play the Florida Panthers in the first round of playoffs, who will most likely win based on the percentage of wins using the L10 stat.**

Answer:

Vegas won 6 of the last 10 games = 6/10 = 60%

Florida won 3 of the last 10 games = 3/10 = 30%

Vegas will most likely win since their L10 percentage is higher by 30%

**Task 4: Winnipeg will play Calgary in the playoff round. Using the GF (Goals For) for both teams calculate the average goals per game played and predict who will win the game.**

Answer:

Winnipeg GF 277

277/82 = 3.17 = 3.2 goals per game

Calgary GF 225

225/82 = 2.74 = 2.7 goals per game

Winnipeg will most likely win since they have a higher Goals For per game average.

**Task 5: Analyze the goal differential (DIFF) for Ottawa Senators compared to the DIFF for the Minnesota Wild to determine how this may affect the outcome of the game.**

Answer: The goal differential for the Ottawa Senators is +9, which is higher on the positive side than the DIFF for the Minnesota Wild, which is -11. This means that Ottawa’s GF average is higher than Minnesota’s and it would be logical to predict that Ottawa will score more goals against Minnesota and achieve a win. It could also indicate that Ottawa has a stronger defense (or Minnesota has a weaker offense) which could also result in a win for Ottawa.

# Performance Descriptors

| Levels | Performance Descriptors | Needs Work | Completes task with support from practitioner | Completes task independently |
| --- | --- | --- | --- | --- |
| C4.3 | calculates using numbers expressed as whole numbers, fractions, decimals, percentages and integers |  |  |  |
|  | manages unfamiliar elements (e.g. context, content) to complete tasks |  |  |  |
|  | calculates percentage change |  |  |  |
|  | applies statistics (e.g. population change, growth rates) |  |  |  |
|  | chooses and performs required operations; makes inferences to identify required operations |  |  |  |
|  | identifies a variety of ways to complete tasks |  |  |  |
|  | finds, integrates and analyzes data |  |  |  |
|  | makes predictions using data; identifies trends |  |  |  |
|  | uses strategies to check accuracy (e.g. estimating, using a calculator, repeating a calculation, using the reverse operation) |  |  |  |

This task: Was successfully completed Needs to be tried again

Learner Comments:

Instructor (print): Learner (print):

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