



Task Title: Predicting Outcomes using Team Statistics

OALCF Cover Sheet – Practitioner Copy

Learner Name: _____

Date Started: _____

Date Completed: _____

Successful Completion: Yes ☐ No ☐

Goal Path: Employment ☐ Apprenticeship ☐

Secondary School ☐ Post Secondary ☐ Independence ☐

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

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2024-2025 NHL Regular Season End Statistics

	GP	W	L	OTL	PTS	RW	ROW	SOW	SOL	HOME	AWAY	GF	GA	DIFF	L10	STRK
Winnipeg Jets	82	56	22	4	116	43	54	2	1	30-7-4	26-15-0	277	191	+86	7-3-0	W1
Washington Capitals	82	51	22	9	111	43	49	2	3	26-9-6	25-13-3	288	232	+56	4-6-0	L1
Vegas Golden Knights	82	50	22	10	110	46	49	1	5	29-9-3	21-13-7	275	219	+56	6-2-2	W1
Toronto Maple Leafs	82	52	26	4	108	41	51	1	2	27-13-1	25-13-3	268	231	+37	9-1-0	W5
Dallas Stars	82	50	26	6	106	41	48	2	2	28-10-3	22-16-3	277	224	+53	3-5-2	L7
Los Angeles Kings	82	48	25	9	105	43	47	1	3	31-6-4	17-19-5	250	208	+44	8-2-0	L1
Tampa Bay Lightning	82	47	27	8	102	41	45	2	3	29-8-4	18-19-4	294	219	+75	5-2-3	L1
Colorado Avalanche	82	49	29	4	102	40	45	4	3	26-12-3	23-17-1	277	234	+43	5-4-1	W1
Edmonton Oilers	82	48	29	5	101	36	48	0	1	25-13-3	23-16-2	259	236	+23	7-3-0	W1
Carolina Hurricanes	82	47	30	5	99	42	47	0	3	31-9-1	16-21-4	266	233	+33	3-6-1	L3
Florida Panthers	82	47	31	4	98	37	41	6	0	27-12-2	20-19-2	252	223	+29	3-6-1	L2
Ottawa Senators	82	45	30	7	97	35	44	1	2	27-11-3	18-19-4	243	234	+9	6-2-2	W1
Minnesota Wild	82	45	30	7	97	33	42	3	3	22-17-2	23-13-5	228	239	-11	5-3-2	W2
St. Louis Blues	82	44	30	8	96	32	40	4	2	24-14-3	20-16-5	254	233	+21	7-2-1	W1
Calgary Flames	82	41	27	14	96	31	36	5	2	23-12-6	18-15-8	225	238	-13	7-1-2	W4
New Jersey Devils	82	42	33	7	91	36	40	2	2	19-17-5	23-16-2	242	222	+20	5-5-0	L1
Montreal Canadiens	82	40	31	11	91	30	38	2	4	23-12-6	17-19-5	245	265	-20	7-1-2	W1
Vancouver Canucks	82	38	30	14	90	28	35	3	2	17-16-8	21-14-6	236	253	-17	4-4-2	L1
Utah Hockey Club	82	38	31	13	89	30	37	1	4	18-15-8	20-16-5	241	251	-10	6-2-2	L1
Columbus Blue Jackets	82	40	33	9	89	30	34	6	1	26-10-5	14-23-4	273	268	+5	7-3-0	W6
Detroit Red Wings	82	39	35	8	88	30	36	3	0	22-16-3	17-19-5	238	259	-21	6-2-2	L1
New York Rangers	82	39	36	7	85	35	38	1	0	19-19-3	20-17-4	256	255	+1	5-4-1	W2
New York Islanders	82	35	35	12	82	28	33	2	3	19-17-5	16-18-7	224	260	-36	3-5-2	L2
Pittsburgh Penguins	82	34	36	12	80	24	33	1	6	21-15-5	13-21-7	243	293	-50	5-4-1	W1
Anaheim Ducks	82	35	37	10	80	24	31	4	2	21-18-2	14-19-8	221	263	-42	3-5-2	L4
Buffalo Sabres	82	36	39	7	79	29	32	4	2	23-15-3	13-24-4	269	289	-20	6-3-1	W1
Seattle Kraken	82	35	41	6	76	28	33	2	3	18-18-5	17-23-1	247	265	-18	5-5-0	L1
Boston Bruins	82	33	39	10	76	26	33	0	1	20-14-7	13-25-3	222	272	-50	3-6-1	L1
Philadelphia Flyers	82	33	39	10	76	21	27	6	3	20-20-1	13-19-9	238	286	-48	5-4-1	L3
Nashville Predators	82	30	44	8	68	24	28	2	0	20-18-3	10-26-5	214	274	-60	3-7-0	W1
Chicago Blackhawks	82	25	46	11	61	20	23	2	4	15-20-6	10-26-5	226	296	-70	4-4-2	W2
San Jose Sharks	82	20	50	12	52	14	18	2	5	12-27-2	8-23-10	210	315	-105	0-7-3	L11

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: $\text{OT losses} / \text{total OT games played} = \text{OT percentage losses}$

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

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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 ☐

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Learner Comments:

Instructor (print):

Learner (print):