



Name	
Period	

T-Shirts Checklist

General/Overall:

- Report is in logical order: **Introduction**, explains the **scenario, table** with explanation, **graphs** with explanation, **algebraic (equations)** with explanation, and **summary** paragraph. **(8 pts)**
- Presentable report- Organized/neat/well spaced / writing on one side of page **(5 pts)**
- Writing is clear and concise, spelling and grammar is correct. **(8 pts)**
- Other **(6 pts)**

Introduction:

- Explains what the purpose of the report is (you are an analyst hired to help solve the problem). Remember to give crucial information. **(5 pts)**

Scenarios:

- Gives a reasonable scenario for all four functions. **(8 pts)**
- Justifies if the scenario and function is possible in a real life situation **(8 pts)**

Tables:

- Sets up a table/chart for all 4 scenarios, x value (number of t-shirts) starts at 0 goes up by minimum of 25 and up to a minimum of 300 t-shirts. **(5 pts)**
- Table(s) is/are accurate **(8 pts)**
- Writes an explanation for the table
 - how were the numbers derived
 - what information is given when comparing the different stores about the cost,
 - when is it cheaper (uses range of costs for example if buying t-shirts from 0 to _____ buy from _____ because the cost is cheaper; it is _____ to _____; whereas, at other stores the cost for the same number t-shirts is _____, etc. – give evidence from table)? **(8 pts)**
 - Copy of the whole table in sheets (google or excel) is attached or a link is provided to the sheet via e-mail. **(4 pts)**

Graphs:

- Graphs all four functions on the same graph **(4 pts)**
- Uses graph paper to graph functions and is **hand drawn**. **(6 pts)**
- Minimum of two graphs are given, each graph has different y-axis unit intervals (ex: one goes up by 10's and the other graph goes up by 25's) **(10 pts)**
- Graphs have title, units are accurate, and axis is labeled with what they represent, each graph is color coded and a key corresponding to the color coding is given. **(10 pts)**
- Each graph is accurate **(10 pts)**
- A print out of graph on Desmos is attached. **(4 pts)**
- Write a reflection (explanation as to what the graph shows) about graph (remember to address
 - Explains the slope & y-intercept represent. **(3 pts)**
 - comparisons of costs at different stores- when is it cheaper (uses range of costs for example, if buying t-shirts from 0 to _____ buy from _____ because the cost is cheaper; it is _____ to _____; whereas, at other stores the cost for the same number t-shirts is _____, etc. – give evidence from graph)? etc. **(15 pts)**

Domain/Range:

- Explains what the domain and range in this situation are. **(4 pts)**
- Explains the differences of each of the function's domain and range in relation to real life situation **(4 pts)**

Equations (algebraic):

- Uses the equations and systems of equations to find the exact intersection point of each of the stores. For example store A with store B, Store A with Store C, etc. **(8 pts)**
- Gives an explanation as to what these *intersections mean & what happens before/after* the intersection. **(3 pts)**
- Explains which of the intersections were important to find and why. **(4 pts)**

Summary:

- Has a topic sentence (claim). **(2 pts)**
- Explains what is the best deal and when (quantifies – gives the range for number t-shirts and the cost for that range compared to other stores) . **(20 pts)**
- Gives evidence to back up the claim – using table, graph, equations and slope. **(16 pts)**
- Has a concluding sentence. **(2 pts)**
- Color coded rough draft of summary is attached. **(5 pts)**