

Math 2 – Similar Triangles – A Triangular IASIS TASK

Your task in this assignment is to determine 2 heights and 1 distance for me, using our Similar Triangle methods from our last lesson. So, in keeping with the IASIS soccer tournament going on this weekend, you need to know:

- (a) how tall is the scoreboard on the main soccer field?
- (b) how far is the scoreboard from the track? (but you can't cross the track in order to take measurements!)
- (c) how high is the wall behind the scoreboard?

To calculate these heights/distances, you must:

- (i) select one of our 4 “surveying” methods
- (ii) outline what you need to do
- (iii) collect & record the data
- (iv) perform the calculations
- (v) state your final answers

I will mark 2 key aspects of your work: (1) your ability to design and perform the “surveying” and (2) your ability to calculate with the data. I will use the following marking scheme to grade each one of the 3 tasks in your work:

Marks	Design & Performance of Task	Marks	Calculations
9.5	The design & performance of the procedure was done independently and correctly carried out independently	10	Calculations are correct and were independently done
8.5	The design & performance of the procedure was done independently and correctly carried out with limited guidance	9	Calculations are correct and were done with limited guidance
7.5	The design & performance of the procedure was done with limited guidance and then correctly carried out without guidance	8	Calculations are correct and were done with some guidance
6.5	The design & performance of the procedure was done with some guidance and correctly carried out with limited guidance	8	Calculations are incorrect but were independently attempted
5	The design & performance of the procedure was done with lots of guidance and correctly carried out with guidance	6	Calculations are incorrect and were done with some guidance

So how do you get the PERFECT score for the Design & Performance part → Use a SECOND method to CONFIRM your results that you determined from your first method!!

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Here is a copy of the worksheet that you will complete for EACH of the 3 tasks

METHOD: What must I do??

DATA: Draw a sketch of your “surveying” triangles and label all key points & lines. RECORD your data ON the drawing

CALCULATION: show your (i) proportions, (ii) substitutions (iii) calculations