

MeTEOR Performance Task

Eighth Grade

Mathematics
Pythagorean Theorem

Complete Performance Task Scoring Rubric *Pythagorean Theorem*

17-22 Proficient 12-16 Good 8-11 Satisfactory 4-7 Poor 0-3 Unsatisfactory

	Depth of Knowledge Level	Points	Total Possible Points for Task	Total Points Earned by Student
Task 1: A. $a^2 + b^2 = c^2$ B. Right Triangles C. Longest side diagonal from the right angle.	1	1 1 1	3	
Task 2: A. 6.4 B. 7.3 C. 8.9 D. 8.6	2	1 1 1 1	4	
Task 3: A. 6.7 cm B. 9.1 C. 5.9 D. 4.9	2	1 1 1 1	4	
Task 4: A. No; Student justification should include information that the Pythagorean Theorem doesn't apply accurately. B. Yes; Student justification should include information that the Pythagorean Theorem was used to determine their answer.	3	1 1	2	

<p>Task 5:</p> <p>A. Answers will vary. Rectangles contain right angles. A diagonal will create a right triangle. Pythagorean Theorem can be applied. Diagonal length is 6.4 feet.</p> <p>B. Answers will vary. John is correct. 60 yards across is shorter than the diagonal which is 92.2 yards when Pythagorean Theorem is applied.</p>	3	2 2	4	
<p>Task 6:</p> <p>A. 127.3 feet</p> <p>B. 127.3 feet $8100 \times 8100 = x^2$ Answers will vary, however students must explain how a baseball field is rectangular in shape and includes right angles and right triangles, therefore the Pythagorean Theorem may be applied.</p> <p>C. 127.3 feet. Answers will vary, however students must explain how a baseball field is rectangular in shape and includes right angles and right triangles, therefore the Pythagorean Theorem may be applied. Legs are home plate to first base and home plate to third base. The hypotenuse is from third base to first base.</p>	3	1 2 2	5	
TOTAL POINTS:				



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