mxa

c: calculation u: units	s: significant digits
1 point 1 point	1 point G:Grammar
230 cm ³	1 9.6 3.9 6.1 228.38 230 V: Vocabulary
velocity or speed	2a See lab for scale.
centimeters per second	2b
59.5 cm	2c 5.47 10 4.75 59.45
8.27 seconds	2d 50 4.75 5.47 8.27
2 marbles	3a
	3b
3 reasonable, well thought out, well reasoned, clear, logical	
2 Not well t	nought out, not well reasoned, unclear, confusing, or a mystery,
or circular	 a restatement of the question
1 Too brief,	so brief has to hinder comprehension
	3c
-	cts slow, fast ejects fast, numbers hold the same
1 point	•
50 cm/s	3d 30 0.6 50
260 g cm/s	3e 5.2 260
copper/metals	4a
	4b
3 reasonable, well thought out, well reasoned, clear, logical	
2 Not well thought out, not well reasoned, unclear, confusing, or a mystery	
or circular – a restatement of the question	
1 Too brief, so brief has to hinder comprehension	
3 reaconable	4c e, well thought out, well reasoned, clear, logical
2 Not well thought out, not well reasoned, unclear, confusing, or a mystery	
	so brief has to hinder comprehension
6° 54.576'	5a 3 points for full 6° 54.5xx, 2 for 6° 54', 1 for 6° N
158° 09.707'	5a 3 points for full 158° 09.7xx, 2 for 158° 09', 1 for 158° E
200 00000	E/N, S/W: -1 point
Variable with 5a	5b "No" appeared to be the most "defensible" answer
Variable based on 5b	5e GPS/Google Earth are solid answers. Telecom is TIME
GPS or Google Earth	5f GPS/Google Earth are solid answers. Telecom is TIME
2	6
4 Exceptionally thoughtful and insightful answer	
3 reasonable, well thought out, well reasoned, clear, logical	
2 Not well thought out, not well reasoned, unclear, confusing, or a mystery	
1 Too brief, so brief has to hinder comprehension	
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uncle, sunt, or even a member of your immediate family. The word "relative" is being used as a pour	

The word "relative speed" should not be confused with "the marbles are related" A relative is a cousin, uncle, aunt, or even a member of your immediate family. The word "relative" is being used as a noun. In the phrase "relative speed" the word is being used as an adjective that means "as compared to." Some students appear to have confused the noun and the adjective.

The question, "Why is nature mathematical?" could also be phrased "Why is mathematics natural?" All cultures agree that one plus one is two, there is no cultural or religious difference of opinion on this point. The question is ultimately philosophical and therefore, at some level, a matter of personal choice. Some students even noted that nature is not mathematical, only humankind. Humans choose to apply mathematics to nature and in the process find mathematical patterns.