MAT.06.SR.1.000NS.D.097 C1 TD

Sample Item ID:	MAT.06.SR.1.000NS.D.097
Grade:	06
Claim(s):	**Claim 1: Concepts and Procedures** Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	1 D: Apply and extend previous understandings of numbers to the system of rational numbers.
Content Domain:	The Number System
Standard(s):	6.NS.7
Mathematical Practice(s):	2
DOK:	1
Item Type:	SR
Score Points:	3
Difficulty:	L
Key:	FTFT
Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues):	
Notes:	Multi-Answer, True/False Item

The level of the top of the water in the ocean is considered to be at an altitude of zero (0) feet.

- The ocean floor at a particular dive site is -20 feet.
- A diver is located at -5 feet at that same site.
- The captain of a boat is located at an altitude of 15 feet, directly above the diver.

For numbers 1a – 1d, select True or False for each statement.

1a. The distance from the captain to the diver is greater than the distance from the top of the water to the ocean floor.

◯ True ◯ False

1b. The distance from the captain to the top of the water is the same as the distance from the diver to the ocean floor.

◯ True ◯ False

1c. When the diver swims to -10 feet, the diver will be the same distance below the top of the water as the captain is above the top of the water.

◯ True ◯ False

1d. When the diver swims to -10 feet, the diver's distance to the ocean floor will be equal to diver's distance to the top of the water.

◯ True ◯ False

Scoring Rubric for Multi-Part Items:

Responses to this item will receive 0-2 points, based on the following:

2 points: FTFT
The student shows a thorough understanding of using the absolute value of coordinates to represent distances.

1 points: FTFF, TTFT, FTTT, FFFT
The student shows a partial understanding of using the absolute value of coordinates to represent distances and makes a single error.

0 points: TFTF, TTTT, TFFT, FFTT, TTTF, TFTT, TFFF, FFTF, TTFF, FTTF, FFFF
The student shows a limited or inconsistent understanding of using the absolute value of coordinates to represent distances.