



## *10<sup>th</sup> Grade Mathematics Sample Questions*

1. Given the following arithmetic sequence, find the common difference.

**1.6, 1.2, 0.8, 0.4, 0**

- A. 4  
B. 0.4  
C. -0.4  
D. -4
2. Using the stem and leaf plot, how many days in July were in the 80's?

- A. 13 days  
B. 4 days  
C. 8 days  
D. 6 days

Average Temperatures during July	
Stem	Leaf
6	5 5 6 8
7	4 5 6 6 8 8 9 9
8	0 2 2 2 4 6 6 6 7 7 8 9 9
9	0 0 1 1 4 4

3. A platform is built in the shape of an isosceles trapezoid. The bottom base is 16 feet, and the top base is 6 feet. A horizontal brace is placed halfway between the bases. What is its length?
- A. 5 feet  
B. 6 feet  
C. 10 feet  
D. 11 feet