How to Leave Nightmare Land

Directions: The letters in the yellow boxes on the map are clues. The statements below will guide you to the clue you need to find. Write the correct clue letter on the line next to each statement.

________ 1. Start where Transylvania Way crosses Eek Creek. Look at drawing A below. Go to the place pictured there, and grab a clue on the lower mountain.

________ 2. Descend 200 meters for the next clue.

________ 3. Continue due west until you reach ___ ___ River. The clue is the 3rd letter in the river’s name.

________ 4. Board the canoe and paddle through the river until you find the steepest part of Mt. Slide. Get the clue from the river near the steeper slope.

________ 5. Paddle into Casper Swamp, and pick up the clue on the western shore.

________ 6. Go to the place shown in drawing B. Climb to the highest elevation. Get the clue nearer the steeper slope.

________ 7. Descend the gentler slope and pick up the clue at the bottom.

________ 8. Go west until you reach the top of Last Chance Hill. You will find the final clue as you descend along the steepest path of the trail.

Now unscramble the clues for the whereabouts of the secret passage back to your soft pillow.
Discussion Question

1. In which compass direction is the secret passage found on the map? ______________________

2. What is the highest possible elevation of Mt. Shea? _________________________________

3. What is the lowest possible elevation of Last Chance Hill? ___________________________

4. What is a possible elevation of the top of Mt. Slide? _______________________________

5. Determine the distance between the peak of Mt. Freddy to the peak of Mt. Shea. _________

6. How does a topographic map show steep and gentle slopes? __________________________
   _____________________________________________________________________________
   _____________________________________________________________________________

7. Calculate the gradient between points X and Y. Be sure to:
   a. Write the equation for gradient.
   b. Substitute values into the equation.
   c. Label your answer with the correct units.

8. On the grid below construct a topographic profile along the imaginary line between clue R and clue P by plotting a point for the elevation of each contour line that crosses line RP. Connect the points with a smooth, curved line to complete the profile.

9. Which way is Eek Creek flowing? How do you know? _______________________________

   _____________________________________________________________________________
   _____________________________________________________________________________

10. What is the importance of using a topographic map? ______________________________
    _____________________________________________________________________________
        _____________________________________________________________________________

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Nightmare Land Map

Contour Interval = ______ m

Scale

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