

8. Map the distance from  $155.50^{\circ}\text{W}$  through MLO to  $155.60^{\circ}\text{W}$  ( $a2$ ):  $a2 =$  \_\_\_\_\_ cm.
9. The difference in longitude between  $155.50^{\circ}\text{W}$  and  $155.60^{\circ}\text{W}$  ( $a2$ ):  $a2 =$  \_\_\_\_\_.
10. Use your general equation from part 8b to find the value of  $a2$  (that is, the difference in longitude between  $155.50^{\circ}\text{W}$  and the MLO site):  $a2 =$  \_\_\_\_\_.
11. Determine the longitude of the MLO site ( $155.50^{\circ}\text{W} + a2$ ): \_\_\_\_\_  $^{\circ}\text{W}$ .

- D** Part of the USGS 7.5-minute topographic quadrangle map of the Lower Geyser Basin, Wyoming (2015), is reproduced in Fig. A1.2.2. On the topographic map, put a dot in the center of the blue oval representing the Grand Prismatic Spring (Fig. 1.3). We are going to build on what you learned in part A to find the UTM coordinates of the center of the Grand Prismatic Spring.



Figure A1.2.2

1. Regarding a first look at the map in Fig. A1.2.2
  - (a) What is the minimum easting on the map? \_\_\_\_\_ mE. What edge of the map is bounded by the minimum easting (top, bottom, left, right)? \_\_\_\_\_
  - (b) What is the minimum northing on the map? \_\_\_\_\_ mN. What edge of the map is bounded by the minimum northing (top, bottom, left, right)? \_\_\_\_\_
  - (c) Is the central meridian for this zone to the east (right) or west (left) of this map area? (Refer to Fig. 1.5 for assistance.) \_\_\_\_\_
2. The yellow square that surrounds most of the map in Fig. A1.2.2 represents a horizontal area on the ground at Yellowstone National Park that is 1000 m by 1000 m (1 km  $\times$  1 km) in dimension. We can use a side of that square like a bar scale.
  - (a) As accurately as you can, measure the length of a side of the yellow square on the map in cm; we'll use the variable name  $a3$  for this map length.  $a3 =$  \_\_\_\_\_ cm
  - (b) We will use the variable name  $b3$  for the ground distance along one of the sides of the yellow square—1 km—but expressed in the same units as we used for  $a3$ . That is,  $b3$  is the number of cm in 1 km. There are 100 cm in 1 m, and 1000 m in 1 km.  $b3 =$  \_\_\_\_\_ cm
  - (c) The fractional scale of this map can be found by dividing  $b3$  by  $a3$ —we'll call that result  $c3$ . The fractional scale is  $1/c3$  or  $1:b3/a3$ .  $1/$ \_\_\_\_\_, or  $1:$ \_\_\_\_\_. That means that 1 length unit of any sort (cm, for example) on the map represents  $c3$  length units of the same sort (cm) on the ground.

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