



BOY SCOUTS OF AMERICA
Troop 146
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Second Class Requirement 3a3
"Tell the meaning of five map symbols."
 (Handbook page 334)

_____ Name

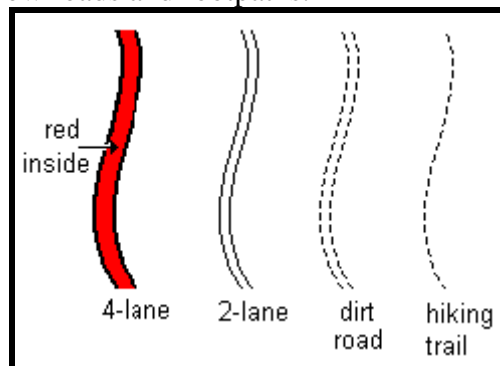
1. Map Reading - Colors

Topographic maps use six different colors: green, white, blue, black, brown, and red. Match up the colors and their meanings. The answers may be found on page 335 of the Scout Handbook:

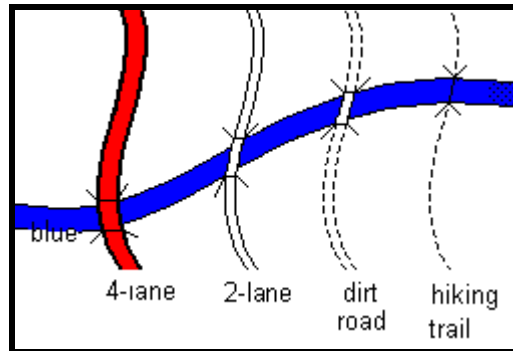
Map Symbols		Colors
_____	Man-made: road, trail, building, bridge, railroad, boundary, place names	Green
_____	Forest, woodland, orchard, heavy vegetation	White
_____	Water: pond, lake, river, stream, marsh, swamp	Blue
_____	An area clear of trees: field, meadow, rocky slope, open country	Black
_____	Contour lines	Brown
<u>Red</u> _____	Hard-surface roads; also sand is red dots	Red

2. Map Reading - Symbols Used

Here is how to show roads and footpaths:



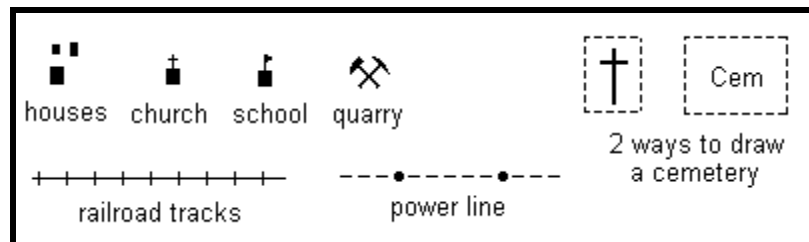
Here is how to show bridges crossing a (blue) river:



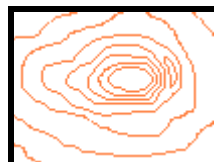
All the water symbols in this picture are colored blue:



These man-made objects are correctly shown in black and white:


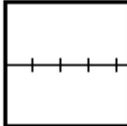


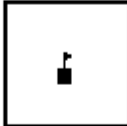





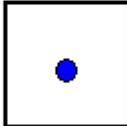
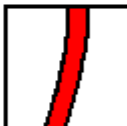

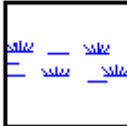

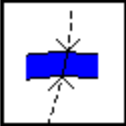

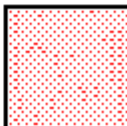


These brown contour lines show hills and valleys. More about contour lines later...



3. Map Reading - Test Yourself

Fill in the blanks:

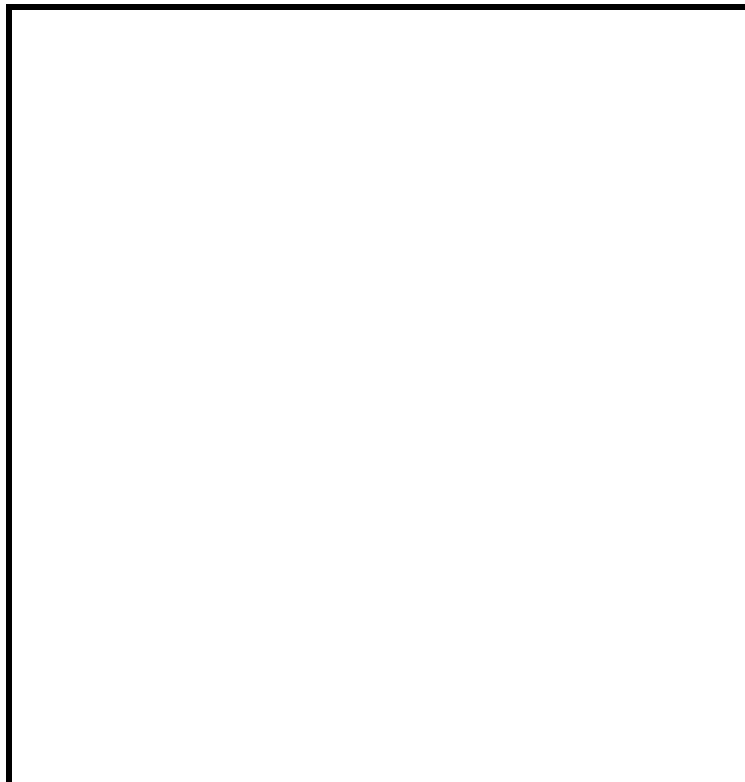
	_____		_____		_____
(black)		(black)		(black)	
	_____		_____		_____
(blue)		(black)		(blue)	
	_____		_____		_____
(black)		(brown)		(black)	
	_____		_____		_____
(black)		(blue)		(red inside black outside)	
	_____		_____		_____
(black)		(blue)		(black)	
	_____		_____		_____
(black crossing blue)		(blue)		(red)	



(hint: this red area
is not a road...
...see page 1)

4. Map Reading - Draw Your Own Map

- a. Draw a 2-lane highway running from south-west to north-east.
- b. Draw a twisting river that starts as a stream in the north-west and get wider as it runs to the south-east.
- c. Draw a bridge where the highway crosses the river.
- d. Draw a round hill in the west portion of the map, using contour lines. The hill is steep on its north face, and has a gradual slope on its south face.
- e. Draw a ranger cabin on the summit of the hill.
- f. Draw a twisting dirt road going from the highway, up the south side of the hill, to the ranger cabin.
- g. Draw a twisting hiking trail from the ranger cabin down to the bridge.
- h. Draw a pond in the north portion of the map.
- i. Draw a twisting stream that flows south-west from the pond to the river.
- j. Draw a village in the east portion of the map: 5 houses, a school, a church, a cemetery, and a well.
- k. Draw a dirt road that runs south from the highway and that dead-ends at the village.
- l. Draw railroad tracks next to the highway, on its east side. Draw a second bridge over the river.
- m. Draw a power line next to the railroad tracks on their east side.



(Hint: start your map off like this)