Sensor Comparisons

Directions: Use the class note, the textbook, and the web to answer the following questions relating to sensors.

1. How many bands does the ETM+ sensor onboard Landsat 7 offer?
2. Does the ETM+ offer any thermal bands, yes or no?
3. Does the ETM+ offer a panchromatic band, yes or no?
4. How many bands does the TM sensor onboard Landsat 5 offer?
5. Does the TM offer any thermal bands, yes or no?
6. Does the TM offer a panchromatic band, yes or no?
7. What was the equatorial crossing time of Landsat 5?
8. How many bands does the OLI sensor onboard Landsat 8 offer?
9. How many bands does the TIRS sensor onboard Landsat 8 offer?
10. What is the radiometric resolution of the OLI sensor onboard Landsat 8?
11. How many shortwave infrared bands are made available by WorldView-3?
12. What is the spatial resolution or cell size of the shortwave bands made available by WorldView-3?
13. What is the spatial resolution of the panchromatic band made available by WorldView-3 at nadir?
14. What is the spatial resolution of the panchromatic band made available by WorldView-2 at nadir?
15. What are the names of the two sensors that will be carried by Landsat 9?
16. What will be the spatial resolution of the panchromatic band that will be collected by Landsat 9?
17. What is the spatial resolution of the thermal data that will be collected by Landsat 9?
18. How many total bands will be collected by the sensor onboard Landsat 9?
19. How many bands are collected by MODIS?
20. How many bands are collected by ASTER?
21. What is the spatial resolution of the visible and near infrared bands of ASTER?
22. What is the spatial resolution of the shortwave infrared bands of ASTER?
23. What is the spatial resolution of the thermal infrared bands of aster?
24. What country operates the IRS satellite system?
25. How many spectral bands are made available by Sentinel-2?