Reading Quiz
BMD and X-Rays

1.) What are two methods used for calculating a BMD image?
     a. X-ray, computed tomography, ultrasound, DEXA, DXA, P-DEXA, DPA, QCT

2.) What do the letters in BMD stand for?
     a. Bone mineral density

3.) How is a BMD image used?
     a. To estimate the strength or density of bones

4.) Briefly explain how an X-ray machine could be used to produce a BMD image.
     a. X-rays can be taken at two different energy levels and then the images can be subtracted using information concerning attenuation of the varying materials.

5.) How are X-rays used outside of the medical field?
     a. Research involving quantum mechanics theory, crystallography, and cosmology; to detect minute flaws in heavy metal equipment; airport security

6.) How can doctors bring different materials into focus using X-rays?
     a. By varying the intensity of an X-ray beam