

### Answers to selected problems from Essential Physics, Chapter 13

1. (a) In England, temperatures are measured in Celsius. Bill, coming from the United States, is used to hearing temperatures stated in Fahrenheit. (b)  $77^{\circ}\text{F}$
3. The disk expands when heated, increasing the radius of the disk, and increasing the disk's rotational inertia. Because the disk's angular momentum should be conserved, the angular velocity of the disk decreases when the rotational inertia increases.
5. (a) Brass has a larger thermal expansion coefficient than iron. When the temperature increases from  $20^{\circ}\text{C}$ , the brass will expand more than the iron, so the brass strip will be longer than the iron strip. This causes the bimetallic strip to curve, with the longer strip on the outside (the longer side) of the curve. Thus, in the picture, the brass is the upper strip and the iron is the lower strip.  
(b) One way to do this is to have the strip bend when it cools, so the strip makes electrical contact with a switch, turning on the heating system. When the room warms up, so does the strip, straightening the strip out so that it no longer makes contact with the switch, turning the heating system off again.
7.  $m_B > m_C > m_A$
9.  $m_B > m_C > m_A$
11. (a) The temperature of the black one increases more quickly, because the black object absorbs energy more efficiently from the Sun. (b) The temperature of the black one also decreases more quickly. Black objects also emit energy more quickly than do shiny objects.
13. (a)  $T_c = \left(\frac{5^{\circ}\text{K}}{9^{\circ}\text{F}}\right)(T_f + 459.4^{\circ}\text{F})$  (b)  $T_f = \left(\frac{9^{\circ}\text{F}}{5^{\circ}\text{K}}\right)T_c - 459.4^{\circ}\text{F}$
15. (a) Canada uses the metric system, so the temperature given on the box would be in Celsius, instead of in Fahrenheit as James is used to. James set the temperature on his stove to  $250^{\circ}\text{F}$ , but the cake should have been baked at a temperature of  $250^{\circ}\text{C}$ . (b) The cake was underdone, because  $250^{\circ}\text{F}$  is a lower temperature than  $250^{\circ}\text{C}$ . (c)  $482^{\circ}\text{F}$ .
17. 1.0007 cm
19. (a) Water will spill out of the pot as the temperature increases. This is because the thermal expansion coefficient for water is larger than the thermal expansion coefficient for aluminum, so the water will expand to a larger volume than the volume of the pot. (b) 0.84% of the water has spilled out by the time the temperature reaches  $80^{\circ}\text{C}$ .
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# Chapter 13 Problems And Applications Answers

**WJ Hussar**



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