Unit 3 - Week 1

Assignment 1

1. A person with a height of 1.8 m, and an arm span of 2.0 m, has a body area of 1.7 m². Is this person a healthy weight for his height? Justify your answer.

2. For the person with the same body area (1.7 m²), the water flow rate at 4°C is 15 L/min. What is the corresponding flow rate at 90°C?

3. For the same person, described in Q2, a water flow rate of 22 L/min can initiate a significant thermal injury. Is it likely that this person will experience a thermal injury if the water flow rate is 15 L/min?

4. For the same person, described in Q2, a water flow rate of 22 L/min can cause a significant thermal injury. How long would it take for this person to experience a severe burn if the water flow rate was 15 L/min?

5. For the same person, described in Q2, a water flow rate of 22 L/min can cause a significant thermal injury. How long would it take for this person to experience a minor burn if the water flow rate was 15 L/min?

6. For the same person, described in Q2, a water flow rate of 22 L/min can cause a significant thermal injury. How long would it take for this person to experience no burn if the water flow rate was 15 L/min?

7. For the same person, described in Q2, a water flow rate of 22 L/min can cause a significant thermal injury. How long would it take for this person to experience a thermal injury if the water flow rate was 15 L/min?

8. For the same person, described in Q2, a water flow rate of 22 L/min can cause a significant thermal injury. How long would it take for this person to experience a thermal injury if the water flow rate was 15 L/min?

9. For the same person, described in Q2, a water flow rate of 22 L/min can cause a significant thermal injury. How long would it take for this person to experience a thermal injury if the water flow rate was 15 L/min?

10. For the same person, described in Q2, a water flow rate of 22 L/min can cause a significant thermal injury. How long would it take for this person to experience a thermal injury if the water flow rate was 15 L/min?

11. Your results on the following investigation support the conclusion that the person is healthy.

12. Your results on the following investigation support the conclusion that the person is healthy.

13. Your results on the following investigation support the conclusion that the person is healthy.

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