

# Heat And Temperature

1. John and Mary walked into an air-conditioned shopping centre during the daytime. Read the comments made by the two teenagers.



- (a) One of the teenagers above had just spent an hour packing frozen meat in the coldroom of a meat factory next to the shopping centre. Who was it?

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- (b) Explain your answer in (a).

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- (c) Which sense organ did Mary and John use to sense the temperature of their surroundings?

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- (d) What can we conclude from the different sensations felt by John and Mary upon entering the shopping centre?

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**Answers:**

1. (a) It was John.  
(b) Since John was in an environment that was much colder than the shopping centre, he had grown used to the extreme cold conditions. When he next walked into the shopping centre, he could feel the effect of the increase in temperature more intensely. This made him feel hotter than it actually was.  
(c) They used their skin.  
(d) Our skin cannot give an accurate estimation of the surrounding temperature.