

FATLOSS (Animals): When a person exercises and loses weight, what happens to the fat in the person's body? Fat is mostly made of molecules such as stearic acid: $C_{18}H_{36}O_2$. Decide and circle whether each of the following statements is true (T) or false (F) about what happens to the atoms in a man's fat when he loses weight.

T F Some of the atoms in the man's fat are incorporated into carbon dioxide in the air.

T F Some of the atoms in the man's fat are converted into energy that he uses when he exercises.

T F Some of the atoms in the man's fat are burned up and disappear.

T F Some of the atoms in the man's fat are converted into heat.

T F Some of the atoms in the man's fat are incorporated into water vapor in the atmosphere.

Is air needed for the man to lose weight? If so, what role do gases from the air play in the man's losing fat?

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TRUE	FALSE	FALSE	FALSE	TRUE

A

What role do the gases from the air play in the man losing weight?
“Yes, the fat must be burned, requiring oxygen to accomplish.”

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What role do the gases from the air play in the man losing weight?

You need air to survive thus you need air to exercise and lose weight. Gases from the air help body systems speed up and burn more fat.

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What role do the gases from the air play in the man losing weight?

"Yes, air is neccessary for the cells in the man's body to under go cellular respiration. Cellular respiration is neccesarry for the body to have enough energy to function and 'burn off' the fat."

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What role do the gases from the air play in the man losing weight?

Yes because the o2 in the air is needed for cellular respiration to burn energy this o2 is then released with a carbon creating CO2

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“Air is needed for the whole body to function, so yes because losing weight is an activity that requires the body to work.”

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What role do the gases from the air play in the man losing weight?

Air is needed but not directly. The man needs air to breathe so he can have energy to move and burn off his fat. It isnt directly needed though because the fat and air aren't directly connected.

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when you use energy you burn glucose which lets out co2 and water vapor

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