Muscle to fat ratio guide to fitness has to be fun or you're not going to do it."

weight loss.

is stepped up.

GIVE

HE OFTEN puts more emphasis

"You can lose 10 pounds of fat

on converting fat to muscle than in

weight and gain eight pounds of muscle weight," he said.

As the body is built up, the same

workload requires a lower pulse rate, so the intensity of the exercise

"The important thing is to main

ESCONDIDIO, Calif. — Weight poor guide to physical condition, ays Tom Pipes, who prescribes are rise programs for athletes and ther people who want to tone up. Pipes is head of a consulting firm, per style to a style adviser to athletes, and director reventive and sports medicine at ealth and racquet club in north-

m San Diego County. He said the most reliable guide is ratio of fat to muscle. That set of mbers is obtained by being ghed twice, once under water. WE KNOW the density of mus-le, bone and fat." Pipes said. "We mow that muscle and bone sink in later and fat floats. We can tell with great deal of accuracy the proporon of fat.

The dry weight, the wet weight nd a mathematical formula give ipes the percentage of body fat.
Inderwater weight is measured by spending a person from a ringboard with the help of a le-rigged plastic basket.

Men are considered in good condition if only 14 to 17 percent of their total body weight is fat. The parable range for women is 22 26 percent.

The key is not really the quantity, the quality of weight, Pipes

We consider obesity for men to e over 25 percent fat and for omen, over 35 percent."

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APPEARANCE can be decep-. Ron Cey, the 5 foot-9-inch, ound Los Angeles Dodgers hird baseman, is among athletes ipes has checked.

"He looks pudgy, but he had only percent body fat." Pipes said. le's really a very fit athlete." Pipes found the expected low ercentage of body fat on jockeys, at learned from studying Willie

emaker that Shoemaker utilizes en very well and is strong. They don't just sit up there on a rse. They work a lot harder than I Athletes' condition varies widely

m sport to sport and sometimes m position to position, he said. He rated boxers highest in overall less, followed in order by basketill, football, hockey, soccer and He called Cey an exception;

itchers generally are the most fit mong baseball players.

RUNNING BACKS are the most of professional football players,' pes said. "Wide receivers and desive backs are next.

Pipes, 26, is working toward a octorate in exercise physiology at le University of Southern Califor-ia. Originally he studied physical ducation and physiology at the niversity of California at Davis to to improve as a discus thrower. His testing of sports pros was ne largely under the auspices of National Athletic Health Instiate. He has advised teams in pro-ssional baseball, basketball, foot-all and hockey. He will be a contant to the 1980 U.S. Olympic

The whole idea of this field, prentive medicine, or sports nedicine, is screening people,

ess prescription."
HE ESTABLISHES three comonents for each exercise program: uency, duration and intensity. If (as a do-it-yourself exerciser) uch to do, you have a problem,

He helps club members choose body-building activities such as tennis, racquetball, swimming or yoga. He then works out a prescription to strengthen the muscles, heart and highest without series. gs without overtaxing them.

More and more people are givng up jogging because they think here is no other way," Pipes said, ressing the need for variety in workouts. "Any exercise that you do

\$100 to be given instead of grades in essay contest WE

The deadline for Texas A&M niversity students enrolled in nglish 103, 104 or 104h to submit omas F. Mayo Prize Essay Contis 5 p.m. Monday.

A \$100 prize, memorializing the former head of Texas A&M's loglish Department and longtime ollege librarian, will be awarded in tecember to the best entry. Hon-table mentions will go to runners-

Students in the English classes sust submit an entry through their eacher, who can provide specific inmation on format. Essays may not

Entries will be judged on the merest or significance of the thesis merest or significance or signif addition to originality, fluency vidness, organization and

Mayo, a Rhodes Scholar and one William Faulkner's high school eachers, died in 1954.

Mayo was author of "Epicurus in agland, 1650-1725" and he first ught at Texas A&M in 1916 before ung to Oxford University and servers in the Naval Reserve during to the Naval Reserve during orld War I. He returned here chead of the English Department of 1944-1952.

Campus Names

Air Force cites Ags Service by Texas Aggies in the

U. S. Air Force has been recognized with a unique award and

Cited were Capt. Gerald D. Ball of College Station; Capt. Hilmar C. Druebert, New Braunfels and 1st Lt. Steven J.

Nugent, Smyrna, GA.
Ball was named the Outstanding Officer Mobilization Augmentee of 1976. He received the award as the most deserving assigned officer reservist while working at Randolph AFB as an operations research analyst in Air

Training Command (ATC) headquarters

Druebert received his third Commendation Medal for service at Shu Lin Kou Air Station, Taiwan. This 1967 A&M graduate was operationsmaintenance and programs chief of the civil engineering branch.

A 1973 Texas A&M graduate in accounting, Nugent was awarded the Commendation Medal for service at Ankara Common Defense Installation in Turkey. The accounting and finance officer was presented the medal at Moody AFB, GA.

General to review

Retired Army Lt. Gen. James F. Hollingsworth will review the Corps of Cadets Saturday.

Hollingsworth completed his career with command of the I Corps Group in Korea in 1973-The group was the largest field army command in the world, consisting of 13 divisions of Republic of Korea and U.S. troops.

Hollingsworth retired in August 1976. He earned a sixth

Purple Heart while commanding the 185,000-man Korean group.

Hollingsworth's citations and decorations include three Dis-tinguished Service Crosses, four Distinguished Service Medals, four Silver Stars, three Legions of Merit and the Soldier's Medal. The latter is given only in extraordinary non-combat circum-

The Corps of Cadets march-in will be at 12:30 p.m. Saturday before the Texas A&M-SMU football game. Kickoff is at 1:30



J. F. Hollingsworth

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tain the pulse rate," Pipes said. 40-\$1,000 420-\$100 880 -\$20 2,800-\$5 8,550-\$2 THESE PRICES GOOD THURS., FRI., SAT.,

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