

# Developing Assignments for FitFocus



A Portion of the Presentation  
“Healthy Active Living Exercises”  
for Special Area Group Conference  
Winnipeg, October 2009

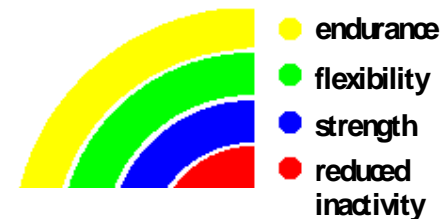
- Sarah Prowse and Rachel Prowse  
FitFocus

Software for Physical Activity Analysis

(complement to FoodFocus: nutrition analysis  
software)

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# Structuring Assignments using FitFocus

- HELP information
- Comparing activities in a related group
- Adding strength and flexibility components
- Analysis of more than one activity
- Saving an activity list to a file
- Sorting an activity list
- Changing data in an activity list.

# Help Information



- Q. *What is endurance?*

Use: HELP/ ENDURANCE

- Q. *How does inactivity affect one's health?*

Use: HELP/ INACTIVITY

# Help Information

- Q. *If I am 5'10" and weigh 170 pounds, what is my Body Mass Index and what is its significance?*

Use HELP/ BODY COMPOSITION/ BODY MASS INDEX

- A. BMI = 24 and recommended range is 20 - 25.



# Comparing Activities in a Group \*

- Q. *What are the least and the most intense winter activities?*

Use

- ACTIVITY BY TYPE/ ACTIVITIES/ WINTER/ ALL
- SORT/ by ENERGY RATE/ MET or  
SORT/ by ENERGY RATE/ KCALORIES/HR

- A. Least: snowmobiling  
Most: cross-country ski uphill

(Note - lower corner shows energy rate,  
snowmobiling 3.5 MET (245 kcal/hr),  
ski 16.5 MET (1155 kcal/hr))

\* By Intensity



# Comparing Activities in a Group\*

Similarly

- Q. *What are examples of work activities that are 'inactive'?*

Use

- ⇒ ACTIVITY BY EFFORT/ INACTIVE
- ⇒ SORT/ by ENERGY RATE/ MET

- A. Sitting at desk, Milking by machine, Typing/computer use, Police riding in car

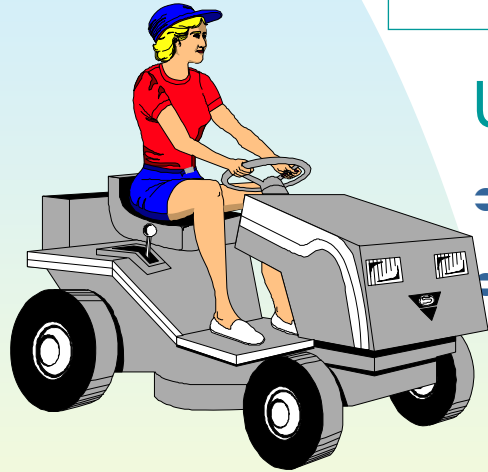
(Note - Sort is from most to least so most intense activities are on top.)

\* By Intensity



# Comparing Activities in a Group\*

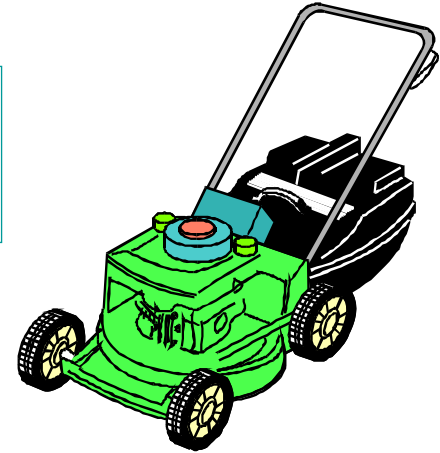
Similarly



- Q. *What is the range of effort to mow a lawn?*

Use

- ➔ Search “mow lawn”
- ➔ SORT/ by ENERGY RATE/ MET or
- ➔ SORT/ by ENERGY RATE/ KCALORIES/HR



- A. 

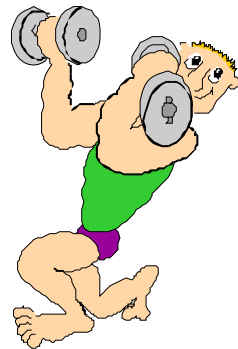
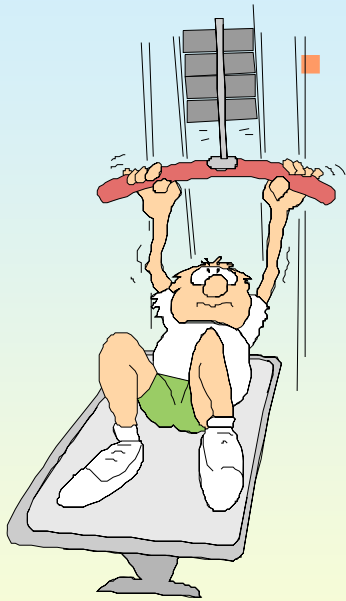
Riding mower	2.5 MET (175 Kcal/hr)
Power mower	5.5 MET (385 Kcal/hr)
Hand mower	6.0 MET (420 Kcal/hr)

\* By Intensity

# Adding Strengthening Exercises

## Steps

- Q. *How do 1 set of 10 reps of:  
Heel raises  
Situps  
Chinups  
Pushups  
twice a week  
compare to  
guidelines\*?*



- Search “Calisthenics”
- Enter date, duration (and effort, heart rate)
- Select “Add Details”
- Add Exercises

- A. 40% of target reps,  
40% of muscle groups



\* Guidelines based on Health Canada and professional recommendations.

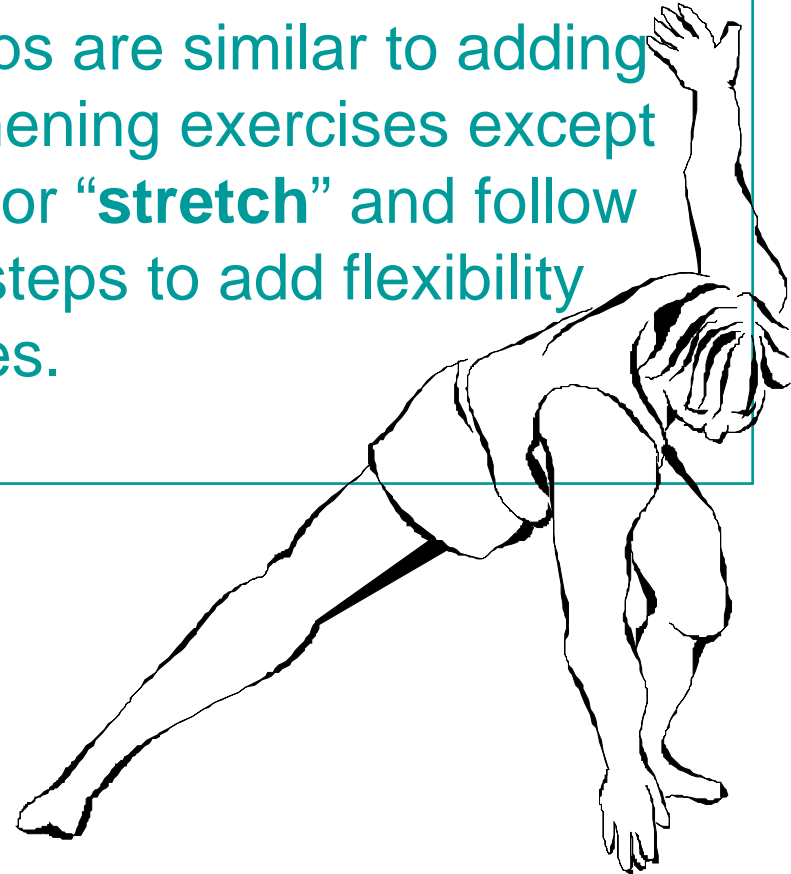


# Adding Flexibility Exercises



## Steps

- The steps are similar to adding strengthening exercises except search for “**stretch**” and follow similar steps to add flexibility exercises.



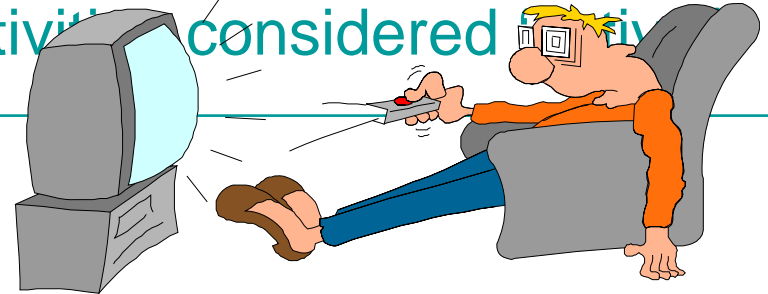
# Analysis of More than One Activity

- Q. *How would light office work 8 hr/work day; 4 hrs per day sitting in a car, reading or TV watching compare to endurance and inactivity guidelines?*

S  
t  
e  
p  
s

- Search for “light office”
- Enter 8 hr/day, 5 days/week
- Search for “sit TV”, enter 4 hr/day, 7 days/week
- View Analysis Results:
  - Endurance 0% (ie bad)

Inactivity 5 % (due to excessive inactivity)  
Benefits 0% (no activity considered)



# Analysis of More than One Activity

- Q. *How would a summer job that daily involves 1 hr of laying sod + 1 hr general gardening compare to endurance guidelines?*

S  
t  
e  
p  
s

- Select by Type\ Work\ Lawn & Garden\ All
- Select Laying Sod, 1 hr/day, 5 days/week
- Select Gardening General, 1 hr/day, 5 days/week
- View Analysis Results:
  - Endurance 161%
  - Inactivity 100% (ie good)
  - Benefits 100% - 242%

(excluding Living Restrictions  
which is most relevant for older persons)



# Sorting Activity List

- Q. Which takes the most energy?
  - running 1 mile (8 min/mile or 5 min/km)
  - walking 1 mile (15 min/mile or 15 min/1.6 km)



## Steps

- ▲ Load all activities into list
- ▲ SORT/ by ENERGY/KCAL
- ▲ View results (select item, read bottom line):

run 1 mile	117 Kilocalories
walk 1 mile	88 Kilocalories



# Save and Restore Activity List

## Steps

- ▲ Use activities from last example (walk, run 1 mile)
- ▲ FILE\ SAVE ACTIVITY LIST\ NEW FILE
- ▲ Enter file name (i.e. WalkRunTest)
- ▲ FILE\ NEW ACTIVITY LIST (to get rid of list)
- ▲ FILE\ LOAD ACTIVITY LIST\ NEW FILE (select file WalkRunTest and activities are restored)



# Changing Quantities in a List

- Q. *How can I modify the duration of an activity and add stretching exercises?*

S  
T  
E  
P  
S

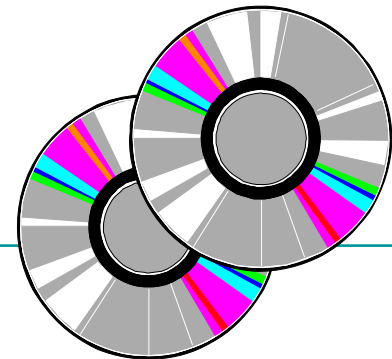
- Use activity list from last example (run 1 mile)
- Double click on activity
- Select “Update Activity”
- Enter new duration
- Select “Add Details” and add stretching exercises as in previous example
- OK to save changes and update selected activity

# Copy Activity in a List

- Q. *How can I copy an activity and create a similar activity on another date?*

S  
T  
E  
P  
S

- Use activity list from last example (run 1 mile)
- Double click on activity
- Select “Copy Activity”
- Enter new date and any other changes
- OK to save changes and add to list as a new activity item



# Presentation Overview

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- Tour of FitFocus program
- Developing assignments with FitFocus
- Answering basic health/fitness questions with FitFocus
- **Sample physical activity analysis assignment with health benefit considerations**
- Curriculum relevance of computer analysis of activities and FitFocus design features

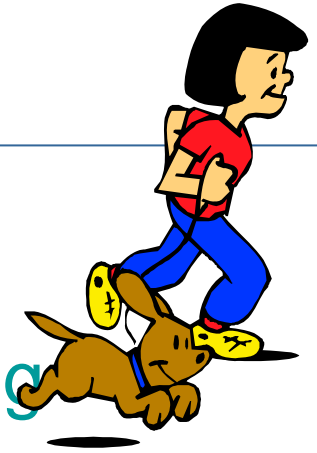
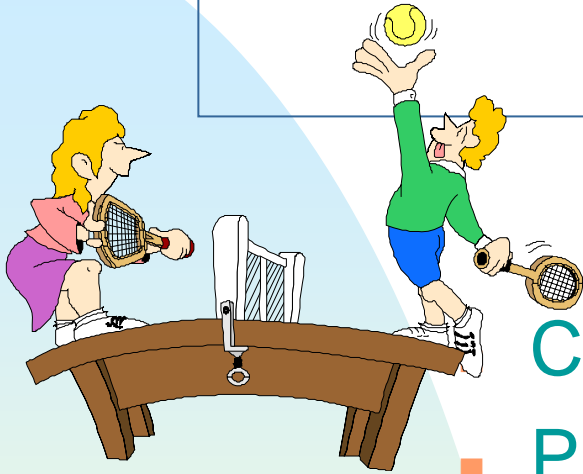


# Sample Assignment

*Choose endurance activities for a sedentary 17 year old whose only initial activity is walking the dog (20 min, once per week). Objectives include:*

- meet 70% of the active time (and energy) target
- represent at least three different activity groups
- include at least one activity of moderate intensity
- spend at least 30 min/week in heart rate target zone in an activity requiring vigorous intensity
- achieve at least 70% of disease risk reduction associated with physical activity
- no more than one activity that involves a cost

# Some Alternative Approaches To Try



- Continue just walking the dog
- Play catch or other sport on weekend
- Start walking to class (20 min each way)
- Start running program (assume 10 min mile possible with 150 bpm heart rate)



# FitFocus Demonstration

## *Use FitFocus To:*

- set “Who” to 17 year old (note heart rate range)
- choose selected activities, duration & effort
- check rainbow display
- use “Endurance” analysis to compare to time and energy targets and view actual and perceived effort
- adjust durations and/or add/delete activities to meet assignment objectives
- use “sort” to find activities which are most appropriate

1. Select – use By Search “walk dog”
  - 20 minutes (assume pulse 100bpm)
  - once per typical week (Wed)

× Note: only one type of activity

2. Analysis: Rainbow shows low endurance

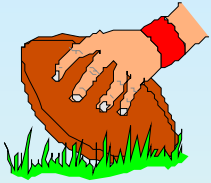
××× - Endurance analysis: low scores for active time and energy expended; activity light not moderate and not in heart rate zone

××××× - Benefits analysis: disease reduction low

✓ - Cost OK

# FitFocus Demo

## Add Catch



1. Select \* catch football (by Search)
  - \* 60 minutes
  - \* once per typical week (Sat)

× Note: only 2 activity groups

2. Analysis: Rainbow no change

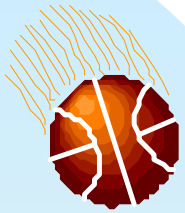
××× \* Endurance Analysis: activity is “light”, has no impact

××××× \* Benefits Analysis: no change

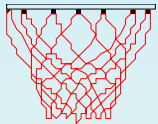
✓ \* Cost OK

# FitFocus Demo

## Shoot baskets



1. Select \* “by Type”|Sports, sort by Energy
  - \* add “Basketball, shooting baskets”, 1 hr
  - \* delete “catch”



×

Note: only 2 activity groups

2. Analysis: Rainbow show improvement

× ×

\* Endurance Analysis: time & energy low, one activity is “moderate”, heart rate not in range

× × ×

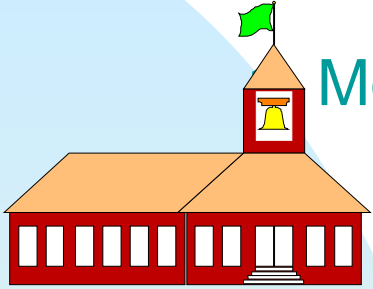
\* Benefits Analysis: disease protection better but still less than 70% of possible risk reduction



\* Cost OK

# FitFocus Demo

## Walk to class



Modify \* delete “walk dog”

\* add “walk to class”, 20 min each way,  
5 days per week

× Note: only 2 activity groups

2. Analysis: Rainbow shows improvement

×× \* Endurance Analysis: time & energy low, all activities “moderate”, heart rate not in range

× \* Benefits Analysis: disease protection better than 70% of possible risk reduction in many cases

✓✓ \* Cost excellent: reduce bus/drive cost



# FitFocus Demo

## Start to run

1. Modify \* add “run 10 min/mile”

\* 2 days per week for 1 mile

\* pulse 150 bpm assumed

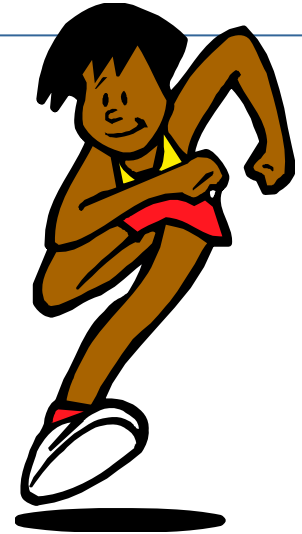
Note: 3 activity groups

2. Analysis: Rainbow OK

\* Endurance Analysis: time & energy OK, one activity “vigorous”, heart rate in range

\* Benefits Analysis: disease protection better than 70% of possible risk reduction in all cases (except Living Restrictions which is for the old)

\* Cost excellent: reduce bus/drive cost





# Contacts:

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For educational software:

FitFocus-Software for Physical Activity Analysis

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or [www.fitfocus.com](http://www.fitfocus.com)

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