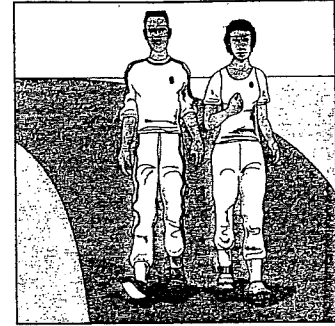


Jim and Jill both enjoy exercising. Jim walks for a certain amount of time, then he cools down. Jill warms up first, then runs for a certain amount of time. Jim burns 5 calories for each minute he walks and 40 calories when he cools down. Jill burns 40 calories when she warms up and 12 calories for each minute she runs.



- Write an equation showing the relationship between the number of calories Jim burns and the number of minutes he walks. Use y for the calories burned and x for the number of minutes he walks.
- Write another equation showing the relationship between the number of calories Jill burns and the number of minutes she runs. Use y for the calories burned and x for the number of minutes she runs.
- Create two tables, one for each equation showing the number of calories each person burns after 1 minute, 5 minutes, and 10 minutes.

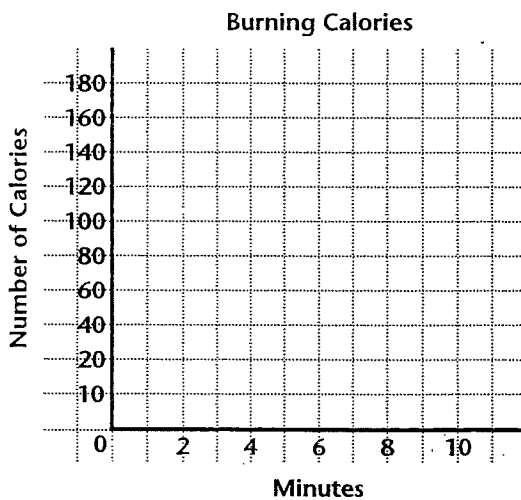
Jim

# of minutes	1	5	10
calories burned			

Jill

# of minutes	1	5	10
calories burned			

- Use the information from your tables to draw a graph of both lines.



- Using your graph, how long must Jim walk in order to burn the same number of calories as Jill does when she runs?

80 calories

Jim = _____ min.

Jill = _____ min.