

Name: _____

Date: _____

Learning Goal 4.1

I can generalize a pattern using linear relations.

Example An airplane is cruising at a height of 10 000 metres. It descends to land. This table show the height of the plan every minute after it began its descent. The height of the plan changes at a constant rate.

- a. Write an **expression** for the height in terms of the time since the plane began its descent.

Time (t minutes)	Height (h metres)
0	10 000
1	9 700
2	9 400
3	9 100
4	8 800

- b. Write an **equation** that relates the height of the plane to the time since it began its descent.

- c. What is the height of the plane after 15 minutes?

- d. How long after beginning its descent does the plane land?

