17 An almanac states that it is possible to determine the temperature by counting the number of times a cricket chirps. To use cricket chirps to determine the temperature in degrees Celsius, the almanac gives the steps below.

- Count the number of times a cricket chirps in 25 seconds.
- Divide that number by 3.
- Then add 4 to get the temperature in degrees Celsius.

a. Use the information from the almanac to show that when a cricket chirps 27 times in 25 seconds, the temperature is 13 degrees Celsius.

b. In your Student Answer Booklet, copy the table below, and fill in the missing numbers using the information from the almanac. Show or explain how you got your answers.

Number of Chirps in 25 Seconds	Temperature (degrees Celsius)
27	13
48	?
?	28

c. Based on your table, write an expression that can be used to calculate the temperature in degrees Celsius when a cricket chirps *n* times in 25 seconds.