Distance jogging

This task is about using an algebraic expression to work out answers.

Hine is a keen jogger. She jogged twice around the block on Monday, three times on Tuesday, but only once on Wednesday. The total distance she ran in the three days was 12 km.

a) Show how to work out the distance once around the block.

Answer: _____ km

Here is an expression describing Hine's jogging each day for a week (from Monday to Sunday):

$$2x + 3x + x + 4x + 3x + 2x + 0x$$

b) i) Which day did she jog the greatest distance? _____

   ii) How far did she jog that day? _____ km

c)
   i) What does the 3 in the term 3x mean? _____

   ii) What does the 0 in the last term (0x) mean? _____

   iii) What does the x in this equation stand for? _____

d) Show how to find the total distance she jogged for the whole week.

Answer: _____ km