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**Mathe-Knobel-Box – Teil 1**

**Arbeitsauftrag:**

Eine „Mathe-Knobel-Box“ enthält einen Satz Holzstäbchen mit drei verschiedenen Längen:

* blaue Stäbchen: x Längeneinheiten (LE)
* rote Stäbchen: y Längeneinheiten (LE)
* grüne Stäbchen: 3 Längeneinheiten (LE)

**Aufgabe 1:**

Lina hat mit allen Stäbchen folgende Figur gelegt:

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1. Zeigen Sie rechnerisch, dass sich der Umfang von Lenas Figur mit Hilfe des folgenden Terms ermitteln lässt:



Felix und Max verwenden zusammen auch alle Stäbchen aus der Box. Jeder von den beiden hat jeweils eine Figur gelegt, den Term zur Ermittlung des Umfangs ermittelt und hier notiert:

b) Zeichnen Sie zwei Figuren, welche zu den beiden Umfangstermen von Felix und Max passen:

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|  | Felix: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | Max: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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c) Lina behauptet, dass ihre Figur den gleichen Umfang hat wie die beiden Figuren von Felix und Max zusammen. Überprüfen Sie Lenas Behauptung rechnerisch.

