Grade 7 Maths Worksheet

Multitudes and number pattern

Questions:

1. Andreas mows his lawn every 6 days, washes his car every 9th day and also visits his brother every 15th day. Today he will be doing all three of these. How long will it be before he has another day like today?

Solution

1.   We are searching for the lowest common multiple of the three numbers.
Mowing the lawn:
6,12,18,24,30,36,42,48,54,60,66,72,78,84,90,96,102

Washing the car:
9,18,27,36,45,54,63,72,81,90

Visiting his brother:
15,30,45,60,75,90

He will have a similar day in ninety days time.
(Roughly three months from now)

This is a very challenging question, as it does not suggest a mathematical tool or path. It is up to the learner to choose an appropriate tool.

Appendix of Assignment Tools
The lowest common multiple
Pattern