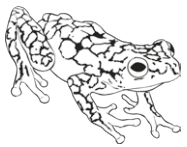
Jumping Sequences

I can generate and describe linear number sequences.

Find the rule that describes the distance of each creature's jump. Be careful! None of the creatures start jumping from zero! Write the distances reached by the next four jumps **in metres**. Use the formula to find the value of the final missing jump.



START	27cm	50cm	73cm	96cm

Jumping rule = _____

formula = (23 × jump number) + 4

Jump 5	Jump 6	Jump 7	Jump 8	Jump 53

START	2.5m	4m	5.5m	7m

Jumping rule = _____

formula = (1.5 × jump number) + 1

Jump 5	Jump 6	Jump 7	Jump 8	Jump 76

START	155cm	275cm	395cm	515cm

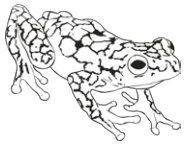
Jumping rule = _____

formula = (120 × jump number) + 35

Jump 5	Jump 6	Jump 7	Jump 8	Jump 85

Jumping Sequences **Answers**

Find the rule that describes the distance of each creature's jump. Be careful! None of the creatures start jumping from zero! Write the distances reached by the next four jumps **in metres**. Use the formula to find the value of the final missing jump.



START → 27cm → 50cm → 73cm → 96cm

Jumping rule = **+23cm**
formula = (23 × jump number) + 4

Jump 5	Jump 6	Jump 7	Jump 8	Jump 53
1.19m	1.42m	1.65m	1.88m	12.23m

START → 2.5m → 4m → 5.5m → 7m

Jumping rule = **+1.5m**
formula = (1.5 × jump number) + 1

Jump 5	Jump 6	Jump 7	Jump 8	Jump 76
8.5m	10m	11.5m	13m	115m

START → 155cm → 275cm → 395cm → 515cm

Jumping rule = **+120cm**
formula = (120 × jump number) + 35

Jump 5	Jump 6	Jump 7	Jump 8	Jump 85
6.35m	7.55m	8.75m	9.95m	102.35m