

Describing a rule in words

WHAT THIS LESSON TEACHES

To continue a number pattern, look at how each term changes. The **rule** describes the change — usually 'add the same amount each time' or 'multiply by the same factor each time'.

→ 3, 7, 11, 15, ... rule: add 4. Next: 19.

→ 2, 6, 18, 54, ... rule: multiply by 3. Next: 162.

ANSWER KEY

a) $** \times 3 \text{ then } + 1**$ (or ' $3 \times \text{input} + 1$ ').

Q2: + 14

b) $** \text{input} \times \text{input} + 1**$ (or 'square it then add 1').

Q3: -6

c) $** \div 2**$.

Q4: $\times 3 + 8$

Q1: 63

EXTENSION SHEET · STRETCH ANSWERS

S1: 14

S4: 2

S2: $\times 3 + 6$

S5: + 13

S3: $\times 6 + 4$