Thursday 26th November 2020

| Start at Rule Start at Rule Start at Rule 1 23 +2 6 83 -7 11 21 +5 2 56 -8 7 59 +3 12 48 -6 3 125 +25 8 56 -7 13 19 +9 4 73 -5 9 5 +8 14 110 -20 5 47 +4 10 120 -3 15 21 +11 B Complete these sequences by filling in the boxes. Write the rule each time. 9 62 47 42 37 2 -1 -3 -5 -7 10 21 18 12 6 3 175 225 275 325 11 62 48 27 20 4 18 114 316 518 72 3 15 68 64 48 44 44 44 44 44 44 | rite the first | six numbers in e | each sequence. | | |
|---|----------------|------------------|----------------|------------------|---------------|
| 2 56 -8 7 59 +3 12 48 -6 3 125 +25 8 56 -7 13 19 +9 4 73 -5 9 5 +8 14 110 -20 5 47 +4 10 120 -3 15 21 +11 Complete these sequences by filling in the boxes. Write the rule each time. 1 83 85 87 89 | Start at | Rule | Start at | Rule | Start at Rule |
| 3 125 +25 8 56 -7 13 19 +9 4 73 -5 9 5 +8 14 110 -20 5 47 +4 10 120 -3 15 21 +11 Complete these sequences by filling in the boxes. Write the rule each time. 9 62 47 42 37 2 -1 -3 -5 -7 10 21 18 12 6 1 3 175 225 275 325 10 62 48 1 27 20 4 1 1 61 72 83 94 12 49 42 28 21 1 5 68 64 1 48 44 13 114 316 518 72 | 23 | +2 | 6 83 | -7 | 11 21 +5 |
| 73 -5 9 5 +8 14 110 -20 5 47 +4 10 120 -3 15 21 +11 3 complete these sequences by filling in the boxes. Write the rule each time. 1 83 85 87 89 9 9 62 9 62 47 42 37 2 -1 -3 -5 -7 9 9 10 21 18 12 6 9 62 9 62 9 62 9 62 9 62 9 62 9 62 | 56 | -8 | 7 59 | +3 | 12 48 -6 |
| 3 47 +4 10 120 -3 15 21 +11 3 complete these sequences by filling in the boxes. Write the rule each time. 1 83 85 87 89 | 125 | +25 | 8 56 | -7 | 13 19 +9 |
| complete these sequences by filling in the boxes. Write the rule each time. 1 83 85 87 89 | 73 | -5 | 9 5 | +8 | 110 -20 |
| omplete these sequences by filling in the boxes. Write the rule each time. 83 85 87 89 | 47 | +4 | 10 120 | -3 | 15 21 +11 |
| -24 -20 -16 -12 15 68 57 35 13 13 -2 -10 -18 -26 16 -5 -15 -30 -30 | omplete the | | | Write the rule e | each time. |

- 1 77 83 89 95 2 -2 -4 -6 -8 3 0.1 0.3 0.5 0.7 4 68 77 86 95 . 5 25 20 15 10 6 35 60 85 110
- 7 3 1 -1 -3 8 0.25 0.5 0.75 1.0
- 9 132 121 110 99 10 0.05 0.06 0.07 0.08
- 11 54 62 70 78
- 12 18 14 10 6

- 13 48 38 28 18
- 14 45 38 31 24
- 15 64 52 40 28
- 16 5 24 43 62
- 17 19 13 7 1
- 18 48 69 90 111

I can find the rule for a number sequence.

To find the rule that links the numbers study the gaps.

Examples

- 1 3 6 10 15

The rule is subtract 4.

The rule is multiply by 2.

The rule is add one more each time.

A

Write the first six numbers in each sequence.

| Start at Ri | ule | Start at | Rule | Start at | Rule |
|-------------------------------|------|----------|------|------------|----------------|
| 1 210 -4 | 6 | 0.6 | +0.1 | 0.01 | +0.02 |
| 2 65 +4 | 4 | 201 | +101 | 12 3.5 | -0.5 |
| $\frac{3}{2}$ + $\frac{1}{2}$ | 8 | 2 | ×2 | B 5 | $-\frac{1}{2}$ |
| 4 -60 +5 | 9 | 425 | -50 | 1-25 | +0.25 |
| 5 -1 -1 | 1 10 | -3 | -2 | 15 -18 | -2 |

Complete these sequences by filling in the boxes. Write the rule each time.

1 - 4 - 3 - 2 - 125 3.6 4.8 100 2 1.2 2.4 81 66 55 $2 \quad 1\frac{2}{3} \quad 1\frac{1}{3} \quad 1$ 4 7 10 230 330 430 530 12) -5 -10 -16 114 133 B 5 19 38 -8 -11 -14 14 2 4 0.54 0.63 6 0.09 0.18 16 15 290 7 -33 -23 170 50 16 1.3 3.3 3.7

C

Copy the sequences and write the next three numbers. Write down the rule each time.

- 1 -8 -6 -4 -2
- 2 2.1 4.2 6.3 8.4
- 3 25 20 15 10
- 5 -15 -11 -7 -3

6 10.0 10.1 10.3 10.6

- 1 3 9 27
- 8 15 11 7 3
- $9\frac{3}{5}$ $1\frac{1}{5}$ $1\frac{4}{5}$ $2\frac{2}{5}$
- 10 49 64 81 100
- 10 2 3 5 9 17
- 12 0.05 0.1 0.15 0.2
- 1 1.0 0.75 0.5 0.25
- 13 3.0 2.25 1.5 0.75
- 16 -21 -15 -10 -6
- 1 2 6 12 20
- 18 0-3 0-41 0-53 0-66