

1. The following sequences were made by adding a number repeatedly. In each case, say what number was added.

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|-----------------------|----------|-------------------|----------|
| a) 2, 4, 6, 8 | add ____ | b) 3, 6, 9, 12 | add ____ |
| c) 15, 18, 21, 24 | add ____ | d) 42, 44, 46, 48 | add ____ |
| e) 41, 46, 51, 56 | add ____ | f) 19, 23, 27, 31 | add ____ |
| g) 243, 245, 247, 249 | add ____ | h) 21, 27, 33, 39 | add ____ |

2. The following sequences were made by subtracting a number repeatedly. In each case, say what number was subtracted.

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|-----------------------|---------------|--------------------|---------------|
| a) 16, 14, 12, 10 | subtract ____ | b) 30, 25, 20, 15 | subtract ____ |
| c) 100, 99, 98, 97 | subtract ____ | d) 42, 39, 36, 33 | subtract ____ |
| e) 17, 14, 11, 8 | subtract ____ | f) 99, 97, 95, 93 | subtract ____ |
| g) 190, 180, 170, 160 | subtract ____ | h) 100, 95, 90, 85 | subtract ____ |

3. State the rule for the following patterns.

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|--------------------------|---------------|-------------------------|----------|
| a) 117, 110, 103, 96, 89 | subtract ____ | b) 1, 9, 17, 25, 33, 41 | add ____ |
| c) 101, 105, 109, 113 | _____ | d) 99, 88, 77, 66 | _____ |

Bonus: Is the number pattern made by adding 2? Check the gap between each pair of numbers.

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|-------------------|----------------|
| a) 9, 11, 13, 16 | b) 4, 6, 8, 10 |
| c) 10, 12, 15, 16 | d) 3, 5, 7, 9 |

Bonus: Is the number pattern made by subtracting 4? Check the gap between each pair of numbers.

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| a) 22, 18, 14, 10 | b) 19, 15, 12, 8 |
| c) 30, 26, 22, 18 | d) 15, 11, 9, 7 |