

Number Patterns Practice

Name: _____

Date: _____

Question 1

Determine the number pattern

I. 14, 21, 28, 35, 42

A. $\times 7$ C. $\div 7$

B. $+7$ D. -7

VI. 0, 1, 4, 9, 16, 25, 36, 49

A. squares of whole numbers C. $+3$

B. cubes of whole numbers D. $+1, +3$

II. 8, 64, 512, 4096

A. $\times 8$ C. $\div 8$

B. $+8$ D. -8

VII. 0, 1, 8, 27, 64, 125, 216

A. squares of whole numbers C. $+8$

B. cubes of whole numbers D. $+1, +8$

III. 2, 5, 10, 13, 26, 29

A. $+3, \times 2$ C. $+3$

B. $\times 3, +2$ D. $\times 2$

VIII. 0, 1, 1, 2, 3, 5, 8, 13, 21, 34

A. add the previous 2 numbers C. multiply the previous 2 numbers

B. $+1$ D. $\times 2$

IV. 5, 125, 25, 625, 125

A. $\times 25, \div 5$ C. $\times 25$

B. $\div 5, \times 25$ D. $\times 20$

IX. 2, 4, 2, 4, 2, 4

A. $+1$ C. cube, cube root

B. $+2, \div 4$ D. square, square root

V. 64, 55, 46, 37, 28

A. -9 C. $\div 9$

B. -7 D. $\div 18$

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Question 1

Determine the number pattern

I. 14, 21, 28, 35, 42

A. $\times 7$ C. $\div 7$

☒ B. $+7$ D. -7

Arithmetic Sequence

II. 8, 64, 512, 4096

☒ A. $\times 8$ C. $\div 8$

B. $+8$ D. -8

Geometric Sequence

III. 2, 5, 10, 13, 26, 29

☒ A. $+3, \times 2$ C. $+3$

B. $\times 3, +2$ D. $\times 2$

IV. 5, 125, 25, 625, 125

☒ A. $\times 25, \div 5$ C. $\times 25$

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VI. 0, 1, 4, 9, 16, 25, 36, 49

☒ A. squares of whole numbers C. $+3$

B. cubes of whole numbers D. $+1, +3$

Square Numbers

VII. 0, 1, 8, 27, 64, 125, 216

A. squares of whole numbers C. $+8$

☒ B. cubes of whole numbers D. $+1, +8$

Cube Numbers

VIII. 0, 1, 1, 2, 3, 5, 8, 13, 21, 34

☒ A. add the previous 2 numbers C. multiply the previous 2 numbers

B. $+1$ D. $\times 2$

Fibonacci Numbers

IX. 2, 4, 2, 4, 2, 4

A. $+1$ C. cube, cube root

B. $+2, \div 4$ ☒ D. square, square root