

# Continue the Number Patterns

I can continue patterns with fractions, decimals and whole numbers resulting from addition or subtraction (ACMNA107).

Continue each pattern and write down what the rule is. The first one has been done for you!

## Whole Number Patterns:

1. 120, 142, 164, 186, 208, , ,

Rule =

2. 332, 437, , 647, , , 962, , 1172, 1277,

Rule =

3. 805, 765, 725, , 645, , 565, ,

Rule =

## Decimal Number Patterns:

4. 25.03, 26.045, , , , 30.105, 31.12, , 33.15

Rule =

5. 87.109, 87.089, 87.069, 87.049, , , 86.989, , 86.949,

Rule =

## Fraction Number Patterns:

6.  $4\frac{6}{8}$ ,  $5\frac{7}{8}$ , ,  $8\frac{1}{8}$ , ,  $10\frac{3}{8}$ , , ,  $13\frac{6}{8}$ ,

Rule =

7.  $18\frac{5}{10}$ ,  $16\frac{4}{10}$ , ,  $12\frac{2}{10}$ , , 8,  $5\frac{9}{10}$ , ,  $1\frac{7}{10}$

Rule =

## Create Your Own Patterns!

Whole number pattern: \_\_\_\_\_

The rule is: \_\_\_\_\_

Decimal number pattern: \_\_\_\_\_

The rule is: \_\_\_\_\_

Fraction number pattern: \_\_\_\_\_

The rule is: \_\_\_\_\_

# Continue the Number Patterns Answers

Continue each pattern and write down what the rule is. The first one has been done for you!

## Whole Number Patterns:

1. 120, 142, 164, 186, 208, **230**, **252**, **274**      Rule = **the pattern is add 22**

2. 332, 437, **542**, 647, **752**, **857**, 962, **1067**, 1172, 1277, **1382**      Rule = **the pattern is add 105**

3. 805, 765, 725, **685**, 645, **605**, 565, **525**, **485**      Rule = **the pattern is subtract 40**

## Decimal Number Patterns:

4. 25.03, 26.045, **27.06**, **28.075**, **29.09**, 30.105, 31.12, **32.135**, 33.15

Rule = **the pattern is add 1.015**

5. 87.109, 87.089, 87.069, 87.049, **87.029**, **87.009**, 86.989, **86.969**, 86.949, **86.929**

Rule = **the pattern is subtract 0.020**

## Fraction Number Patterns:

6.  $4\frac{6}{8}$ ,  $5\frac{7}{8}$ , **7**,  $8\frac{1}{8}$ ,  **$9\frac{2}{8}$** ,  $10\frac{3}{8}$ ,  **$11\frac{4}{8}$** ,  **$12\frac{5}{8}$** ,  $13\frac{6}{8}$ ,  **$14\frac{7}{8}$**       Rule = **the pattern is add  $1\frac{1}{8}$**

7.  $18\frac{5}{10}$ ,  $16\frac{4}{10}$ ,  **$14\frac{3}{10}$** ,  $12\frac{2}{10}$ ,  **$10\frac{1}{10}$** , 8,  $5\frac{9}{10}$ ,  **$3\frac{8}{10}$** ,  $1\frac{7}{10}$       Rule = **the pattern is subtract  $2\frac{1}{10}$**