

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. 975, 930, 885, 840, , , Rule =

3. 14, 28, , 56, , 84, Rule =

Decimal Number Patterns:

4. 0.12, 0.23, 0.34, , 0.56, 0.67, , 0.89, Rule =

5. 12.9, 11.87, 10.84, , 8.78, 7.75, , Rule =

Fraction Number Patterns:

6. $6\frac{4}{6}$, $6\frac{3}{6}$, , , 6, $5\frac{5}{6}$, , $5\frac{3}{6}$, , $5\frac{1}{6}$, Rule =

7. $4\frac{1}{5}$, , $4\frac{3}{5}$, $4\frac{4}{5}$, , , $5\frac{2}{5}$, $5\frac{3}{5}$, 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, $\boxed{230}$, $\boxed{252}$, $\boxed{274}$

Rule = **the pattern is add 22**

2. 975, 930, 885, 840, $\boxed{795}$, $\boxed{750}$, $\boxed{705}$

Rule = **the pattern is subtract 45**

3. 14, 28, $\boxed{42}$, 56, $\boxed{70}$, 84, $\boxed{98}$

Rule = **the pattern is add 14**

Decimal Number Patterns:

4. 0.12, 0.23, 0.34, $\boxed{0.45}$, 0.56, 0.67, $\boxed{0.78}$, 0.89, $\boxed{1}$

Rule = **the pattern is add 0.11**

5. 12.9, 11.87, 10.84, $\boxed{9.81}$, 8.78, 7.75, $\boxed{6.72}$, $\boxed{5.69}$

Rule = **the pattern is subtract 1.03**

Fraction Number Patterns:

6. $6\frac{4}{6}$, $6\frac{3}{6}$, $\boxed{6\frac{2}{6}}$, $\boxed{6\frac{1}{6}}$, 6, $5\frac{5}{6}$, $\boxed{5\frac{4}{6}}$, $5\frac{3}{6}$, $\boxed{5\frac{2}{6}}$, $5\frac{1}{6}$, $\boxed{5}$

Rule = **the pattern is subtract $\frac{1}{6}$**

7. $4\frac{1}{5}$, $\boxed{4\frac{2}{5}}$, $4\frac{3}{5}$, $4\frac{4}{5}$, $\boxed{5}$, $\boxed{5\frac{1}{5}}$, $5\frac{2}{5}$, $5\frac{3}{5}$, $\boxed{5\frac{4}{5}}$

Rule = **the pattern is add $\frac{1}{5}$**