



# INTERVENTION

## Role of the Vinculum as Meaning Divided By

Each Intervention Anchor Chart contains steps to allow the child to investigate independently.

Children investigating an Intervention may be provided with the Intervention Anchor Chart as a guide to follow as they investigate independently.

Children investigating an Intervention may have their progress recorded in the Progress Sheet.

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Progress Sheet ..... [page 4](#)



# Role of the vinculum as meaning divided by - non-unit fraction (Fractions and Decimals 20)

RESOURCES: pencil,  
paper / Maths book

Record a unit fraction,

Draw 1 shape.



Explain the meaning of the denominator as 'the number we divided by'.

Divide the shape by the number that is the denominator.



Record a number sentence describing that we started with 1 shape and divided it by the number that is the denominator.

$$1 \div 3$$

Record the fraction that we have when we divide 1 by the number that is the denominator.

$$\frac{1}{3} = 1 \div 3$$

Explain that the equals sign means both sides are equal.

Circle the numbers that are the same on both sides of the equals sign.

$$\frac{\textcircled{1}}{\textcircled{3}} = \textcircled{1} \div \textcircled{3}$$

Explain that the only thing not circled on the one side of the equals sign is the division symbol, and the only thing not circled on the other side of the equals sign is the vinculum so the vinculum must mean 'divided by'.

Explain the numerator now means 'the number (of things) that we started with'.

Repeat with other unit fractions

Reflection: What is the meaning of the vinculum?

Record a non-unit fraction,  $\frac{2}{3}$

Additive Thinking: Draw the number of shapes that is numerator.



Explain the meaning of the denominator as 'the number we divided by'.

Divide each shape by the number that is the denominator.



Explain that we divided 1 by 3 for each shape.

$$1 \div 3 = \frac{1}{3}$$

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Explain that because 1 divided by 3 is 1 third, 2 divided by 3 is 2 thirds.  $2 \div 3 = \frac{2}{3}$

Multiplicative Thinking: Draw the number of shapes that is numerator with no gap between them to create 1 shape.



Divide the total shape by 3.



Explain that 2 divided into 3 equal parts is 2-thirds.

$$2 \div 3 = \frac{2}{3}$$

Explain that the equals sign means both sides are equal.

Circle the numbers that are the same on both sides of the equals sign.  $\textcircled{2} \div \textcircled{3} = \frac{\textcircled{2}}{\textcircled{3}}$

Explain that the only thing not circled on the one side of the equals sign is the division symbol, and the only thing not circled on the one side of the equals sign is the vinculum so the vinculum must mean 'divided by'.

Explain the numerator now means 'the number (of things) that we started with'.

Repeat with other non-unit fractions.

Reflection: What is the meaning of the vinculum?

# Progress Sheet

Child's Details (Name and Intervention Concept):
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Each day, record the child's progress. This record, along with the child's recordings and explanations, can be used as: **ASSESSMENT OF LEARNING (SUMMATIVE)** – at any point in time the child's demonstrated level of understanding may be recorded for tracking and reporting purposes.

**ASSESSMENT FOR LEARNING (FORMATIVE)** – the teacher may use the child's demonstrated levels of understanding over time to plan, implement and evaluate further teaching and learning. Recording daily will allow the teacher to identify irregular learning progress, where the child demonstrates understanding in one lesson but not in subsequent lessons. This record can accompany an IEP, and a referral for further support for the child.

**ASSESSMENT AS LEARNING (FORMATIVE)** – the child may be shown this record to allow them to identify their learning progress. The teacher will use their teacher professional judgment to decide whether this is appropriate.

Date									
Number size Investigated									
Independent or with support?									

Date									
Number size Investigated									
Independent or with support?									

Date									
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