

Grade 5 – N03 within Unit 10: Multiplication & Division – Basic Facts

N03 Students will be expected to describe and apply mental mathematics strategies and number properties to recall, with fluency, answers for basic multiplication facts to 81 and related division facts. [C, CN, ME, R, V]

Performance Indicators

N03.01 Describe the mental mathematics strategy used to determine basic multiplication or division facts.

N03.02 Explain why multiplying by 0 produces a product of 0 (zero property of multiplication).

N03.03 Explain why division by 0 is not possible or is undefined (e.g., $8 \div 0$).

N03.04 Quickly recall multiplication facts up to 9×9 and related division facts.

Limited	Developing	Competent	In-Depth
Student can model basic multiplication or division using concrete or visual representations and record the process symbolically. Student can recall multiplication facts up to 5×5 and related division facts.	Student can use a mental mathematics strategy to determine basic multiplication and/or division facts. Student can model why multiplying by 0 produces a product of 0 (zero property of multiplication). Student can model why division by 0 is not possible or is undefined (e.g., $8 \div 0$). Student can recall multiplication facts up to 9×9.	Student can use and describe a mental mathematics strategy used to determine basic multiplication and division facts. Student can explain why multiplying by 0 produces a product of 0 (zero property of multiplication). Student can explain why division by 0 is not possible or is undefined (e.g., $8 \div 0$). Student can recall multiplication facts up to 9×9 and related division facts.	Student can describe and justify efficient and reliable strategies to recall basic multiplication and division facts.