

5-1 Understand the Distributive Property: Operations & Algebraic Thinking:

Understand properties of multiplication and the relationship between multiplication and division.

I can multiply by decomposing factors.

3.OA.B.5 Common Core: Apply properties of operations as strategies to multiply and divide.

5-2 Use Properties to Multiply by 3: Operations & Algebraic Thinking:

Multiply and divide within 100.

I can multiply by 3.

3.OA.C.7 Common Core: Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

5-3 Use Properties to Multiply by 4: Operations & Algebraic Thinking:
Multiply and divide within 100.

I can multiply by 4.

3.OA.C.7 Common Core: Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

5-4 Use Properties to Multiply by 6: Operations & Algebraic Thinking:
Multiply and divide within 100.

I can multiply by 6.

3.OA.C.7 Common Core: Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

5-5 Use Properties to Multiply by 8: Operations & Algebraic Thinking:
Multiply and divide within 100.

I can multiply by 8.

3.OA.C.7 Common Core: Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

5-6 Use Properties to Multiply by 7 and 9: Operations & Algebraic Thinking:
Multiply and divide within 100.

I can multiply by 7 and 9.

3.OA.C.7 Common Core: Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

5-7 Solve Problems Involving Arrays: Operations & Algebraic Thinking:
Represent and solve problems involving multiplication and division.

I can use arrays to solve problems.

3.OA.A.3 Common Core: Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.¹

3.OA.A.4 Common Core: Determine the unknown whole number in a multiplication or division equation relating three whole numbers.