

# Teaching with the Common Core State Standards for Mathematics: Video Clip Connections

Clip Number	Grade Level	Domain	Clusters for Common Core State Standards for Mathematical Content
K.1 Ten-Frames and Dot Cards	K	Counting and Cardinality	Know number names and the count sequence. (K.CC.2) Count to tell the number of objects. (K.CC.4, K.CC.5) Compare numbers. (K.CC.6)
		Operations and Algebraic Thinking	Understand addition, and understand subtraction. (K.OA.3)
K.2 Rekenreks	K	Counting and Cardinality	Know number names and the count sequence. (K.CC.2) Count to tell the number of objects. (K.CC.4, K.CC.5) Compare numbers. (K.CC.6)
		Operations and Algebraic Thinking	Understand addition, and understand subtraction. (K.OA.3)
K.3 Counting Book	K	Counting and Cardinality	Know number names and the count sequence. (K.CC.2) Count to tell the number of objects. (K.CC.4, K.CC.5) Compare numbers. (K.CC.6)
		Operations and Algebraic Thinking	Understand addition, and understand subtraction. (K.OA.3)

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<b>2.1</b> <b>Ten-Frames:</b> <b>8 + 6</b>	<b>1</b>	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (1.OA.1)  Understand and apply properties of operations and the relationship between addition and subtraction. (1.OA.3)  Add and subtract within 20. (1.OA.5, 1.OA.6)  Work with addition and subtraction equations. (1.OA.7, 1.OA.8)
		Number and Operations in Base Ten	Understand place value. (1.NBT.2)
	<b>2</b>	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (2.OA.1)  Add and subtract within 20. (2.OA.2)
		Number and Operations in Base Ten	Use place value understanding and properties of operations to add and subtract. (2.NBT.5, 2.NBT.9)
<b>2.2 Addition:</b> <b>16 + 15</b>	<b>1</b>	Operations and Algebraic Thinking	Understand and apply properties of operations and the relationship between addition and subtraction. (1.OA.B.3)  Work with addition and subtraction equations. (1.OA.D.7, 1.OA.D.8)
		Number and Operations in Base Ten	Understand place value. (1.NBT.B.2)  Use place value understanding and properties of operations to add and subtract. (1.NBT.C.4, 1.NBT.C.5)
	<b>2</b>	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (2.OA.A.1)  Add and subtract within 20. (2.OA.B.2)

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		Number and Operations in Base Ten	Use place value understanding and properties of operations to add and subtract. (2.NBT.B.5, 2.NBT.B.6, 2.NBT.B.9)
<b>2.3 Addition:</b> <b>26 + 27</b>	<b>1</b>	Operations and Algebraic Thinking	Understand and apply properties of operations and the relationship between addition and subtraction. (1.OA.B.3)  Work with addition and subtraction equations. (1.OA.D.7, 1.OA.D.8)
		Number and Operations in Base Ten	Understand place value. (1.NBT.B.2)  Use place value understanding and the properties of operations to add and subtraction. (1.NBT.C.4, 1.NBT.C.5)
	<b>2</b>	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (2.OA.A.1)  Add and subtract within 20. (2.OA.B.2)
		Number and Operations in Base Ten	Use place value understanding and properties of operations to add and subtract. (2.NBT.B.5, 2.NBT.B.6, 2.NBT.B.9)
<b>3.1 Addition:</b> <b>38 + 37</b>	<b>2</b>	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (2.OA.A.1)  Add and subtract within 20. (2.OA.B.2)
		Number and Operations in Base Ten	Use place value understanding and properties of operations to add and subtract. (2.NBT.B.5, 2.NBT.B.6, 2.NBT.B.9)
	<b>3</b>	Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic. (3.NBT.A.1, 3.NBT.A.2)
<b>3.2 Addition:</b> <b>59 + 13</b>	<b>2</b>	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (2.OA.A.1)  Add and subtract within 20. (2.OA.B.2)

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	3	Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic. (3.NBT.A.1, 3.NBT.A.2)
<b>3.3 Subtraction:</b> 70 – 59	2	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (2.OA.A.1)  Add and subtract within 20. (2.OA.B.2)
		Number and Operations in Base Ten	Use place value understanding and properties of operations to add and subtract. (2.NBT.B.5, 2.NBT.B.7, 2.NBT.B.9)
	3	Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic. (3.NBT.A.1, 3.NBT.A.2)
<b>3.4 Subtraction:</b> 70 – 34	2	Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction. (2.OA.A.1)  Add and subtract within 20. (2.OA.B.2)
		Number and Operations in Base Ten	Use place value understanding and properties of operations to add and subtract. (2.NBT.B.5, 2.NBT.B.7, 2.NBT.B.9)
	3	Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic. (3.NBT.A.1, 3.NBT.A.2)
<b>3.5 Multiplication String:</b> $7 \times 7$	3	Operations and Algebraic Thinking	Represent and solve problems involving multiplication and division. (3.OA.A.1, 3.OA.A.3, 3.OA.A.4)  Understand properties of multiplication and the relationship between multiplication and division. (3.OA.B.5)  Multiply and divide within 100. (3.OA.C.7)  Solve problems involving the four operations, and identify and explain patterns in arithmetic. (3.OA.D.9)

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<b>3.6 Doubling and Halving:</b> $4 \times 7, 2 \times 14$	3	Operations and Algebraic Thinking	<p>Represent and solve problems involving multiplication and division. (3.OA.A.1, 3.OA.A.3, 3.OA.A.4)</p> <p>Understand properties of multiplication and the relationship between multiplication and division. (3.OA.B.5)</p> <p>Multiply and divide within 100. (3.OA.C.7)</p> <p>Solve problems involving the four operations, and identify and explain patterns in arithmetic. (3.OA.D.9)</p>
		Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic. (3.NBT.A.3)
<b>5.1 Associative Property:</b> $12 \times 15$	4	Operations and Algebraic Thinking	<p>Use the four operations with whole numbers to solve problems. (4.OA.A.1, 4.OA.A.2, 4.OA.A.3)</p> <p>Gain familiarity with factors and multiples. (4.OA.B.4)</p>
		Number and Operations in Base Ten	<p>Generalize place value understanding for multi-digit whole numbers. (4.NBT.A.1, 4.NBT.A.2)</p> <p>Use place value understanding and properties of operations to perform multi-digit arithmetic. (4.NBT.B.5)</p> <p>Understand the place value system. (5.NBT.A.1, 5.NBT.A.2)</p>
	5	Operations and Algebraic Thinking	Write and interpret numerical expressions. (5.OA.A.1)
		Number and Operations in Base Ten	<p>Understand the place value system. (5.NBT.A.1, 5.NBT.A.2)</p> <p>Perform operations with multi-digit whole numbers and with decimals to hundredths. (5.NBT.B.5)</p>
<b>5.2 Multiplication:</b> $32 \times 15$	4	Operations and Algebraic Thinking	Use the four operations with whole numbers to solve problems. (4.OA.A.1, 4.OA.A.2, 4.OA.A.3)

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		Number and Operations in Base Ten	Generalize place value understanding for multi-digit whole numbers. (4.NBT.A.1, 4.NBT.A.2)  Use place value understanding and properties of operations to perform multi-digit arithmetic. (4.NBT.B.5)
	5	Operations and Algebraic Thinking	Write and interpret numerical expressions. (5.OA.A.1)
		Number and Operations in Base Ten	Understand the place value system. (5.NBT.A.1, 5.NBT.A.2)  Perform operations with multi-digit whole numbers and with decimals to hundredths. (5.NBT.B.5, 5.NBT.B.6, 5.NBT.B.7)
<b>5.3 Multiplication:</b> <b><math>16 \times 35</math></b>	4	Operations and Algebraic Thinking	Use the four operations with whole numbers to solve problems. (4.OA.A.1, 4.OA.A.2, 4.OA.A.3)
		Number and Operations in Base Ten	Generalize place value understanding for multi-digit whole numbers. (4.NBT.A.1, 4.NBT.A.2)  Use place value understanding and properties of operations to perform multi-digit arithmetic. (4.NBT.B.5)
	5	Operations and Algebraic Thinking	Write and interpret numerical expressions. (5.OA.A.1)
		Number and Operations in Base Ten	Understand the place value system. (5.NBT.A.1, 5.NBT.A.2)  Perform operations with multi-digit whole numbers and with decimals to hundredths. (5.NBT.B.5, 5.NBT.B.6, 5.NBT.B.7)
<b>5.4 Array Discussion:</b> <b><math>150 \div 15</math>, <math>300 \div 15</math></b>	4	Operations and Algebraic Thinking	Use the four operations with whole numbers to solve problems. (4.OA.A.1, 4.OA.A.2, 4.OA.A.3)

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		Number and Operations in Base Ten	Generalize place value understanding for multi-digit whole numbers. (4.NBT.A.1, 4.NBT.A.2) Use place value understanding and properties of operations to perform multi-digit arithmetic. (4.NBT.B.5)
	5	Number and Operations in Base Ten	Understand the place value system. (5.NBT.A.1, 5.NBT.A.2) Perform operations with multi-digit whole numbers and with decimals to hundredths. (5.NBT.B.5, 5.NBT.B.6, 5.NBT.B.7)
<b>5.5 Division String:</b> <b><math>496 \div 8</math></b>	4	Operations and Algebraic Thinking	Use the four operations with whole numbers to solve problems. (4.OA.A.1, 4.OA.A.2, 4.OA.A.3)
		Number and Operations in Base Ten	Generalize place value understanding for multi-digit whole numbers. (4.NBT.A.1, 4.NBT.A.2) Use place value understanding and properties of operations to perform multi-digit arithmetic. (4.NBT.B.5)
	5	Number and Operations in Base Ten	Understand the place value system. (5.NBT.A.1, 5.NBT.A.2) Perform operations with multi-digit whole numbers and with decimals to hundredths. (5.NBT.B.5, 5.NBT.B.6, 5.NBT.B.7)
<b>5.6 Subtraction:</b> <b><math>1000 - 674</math></b>	3	Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic. (3.NBT.A.1, 3.NBT.A.2)
	4	Number and Operations in Base Ten	Generalize place value understanding for multi-digit whole numbers. (4.NBT.A.1, 4.NBT.A.2)
	5	Number and Operations in Base Ten	Perform operations with multi-digit whole numbers and with decimals to hundredths.