

MTH/SLS 217 Syllabus

Mathematics for Elementary School Teachers – with Activities

Text: Beckman, 5th Edition, 2017, Pearson

CSI Math Department Fall 2017

DAY	Reading in the Text	Activities Book	PRACTICE PROBLEMS	HomeWork Problems
1a	1.3 Reasoning to Compare Numbers in Base 10	PRACTICE: 31/1, 4 to 10 HW: 32/4, 5, 6, 7		
	1.4 Reasoning about Rounding	PRACTICE: 37/1 to 4 HW: 37/1 to 6		
1b	2.1 Defining and Reasoning about Fractions	Activities CA-26/1, 2; CA-29/1, 2; CA-30/2, 3, 4, 5; PRACTICE: 54/1, 2, 3, 4, 8 HW: 57/1 to 4, 6 to 9, 17		
	2.3 Reasoning about Equivalent Fractions	Activities:CA-32/1, 2; CA-36/1 to 3; CA-33/1, 2; CA-36/1 to 5 PRACTICE: 64/1, 2, 6, 7, 8 HW: 67/1, 3, 6, 10, 11, 15, 17, 18		
2a	2.4 Reasoning to Comparing fractions	Activities:CA-38/2O, 2P, 2Q; PRACTICE: 75/1 to 3 HW: 77/2 - 7, 9, 11, 14, 15, 17		
2b	2.5 Reasoning about Percent	Activities:CA-41/1 to 7; CA-43/1 to 4; CA-44/1 to 4; PRACTICE: 84/2, 3, 7, 8, 9 HW: 88/3, 4, 6, 7, 8ab, 9, 10, 13, (21)		
	3.2 Commutative & Associative Properties of Addition, Mental Math	Activities:CA-46/1 to 6; CA-49/1 to 4; CA-54/3a-f; PRACTICE: 110/1, 2, 3, 4, 7, 8, 9 HW: 112/3, 7, 8, 10, 11, 12, 13		
3a	3.3 Why the Standard Algorithms for Adding & Subtracting Work	Activities:CA-57/1; CA-58/1, 2; PRACTICE: 119/1, 2 HW: 120/4, 6, 7, 8, 9, 11		
	3b	3.4 Reasoning about Adding and Subtracting Fractions	Activities: CA-63/1 to 6; CA-64/1 to 6; PRACTICE: 125/1 to 4, 6 to 8; HW: 131/1, 3, 5, 7, 8, 9, 11, 13, 14, 17, 18 (20, 25)	
3.5 How & Why We Add & Subtract Negative Numbers		Activities: CA-66/1a, 2a, 3a; PRACTICE: 138/1, 2, 3; HW: 139/1, 2, 3		
4a	Review	Sections 1.3 to 3.5		
4b	Test #1	Text 59/18; 89/11, 14; 133/17; etc.		
5a	4.3 Commutative & Associative Properties of Multiplication	Activities:CA-71/1 to 5; CA-74/1 to 4; PRACTICE: 160/6, 7, 8, 9; HW: 149/1, 2, 3; 162/2, 3, 9, 10, 12		
5b	4.4 The Distributive Property of Multiplication over Addition	Activities:CA-75/1, 2, 3; PRACTICE: 171/1, 2, 4, 5, 9; HW: 173/1, 4, 7, 8, 11ab, (16)		

6a	4.5 Properties of Arithmetic, Mental Math	Activities:CA-87/1, 5; CA-81/1–4; CA-82/1–6 PRACTICE: 178/4bdef, 5, 6; HW: 183/5, 6, 7, 10, 11
6b	4.6 Why the Common Algorithm for Multiplying Whole Numbers Works	Activities:CA-83/1, 2, 3; CA-84/4, 7; PRACTICE: 189/1, 2, 3, 4; HW: 191/2, 4, 10
7a	5.1 Making sense of Multiplying Fractions	Activities: CA-87/2, 3, 4; CA-91/1, 2, 3; CA-93/1, 2; PRACTICE: 202/1, 2, 3, 4. HW: 203/1, 5, 8, 13, 14, 17, 21, 22
7b	5.2 Making sense of Multiplying Decimals	Activities: CA-95/1, 2; CA-96/1; CA-97/1,2; HW: 209/1, 3, 5, 6
	5.3 Extending Multiplying to Negative Numbers	Activities: CA-98/1 to 4; PRACTICE: 212/1, 2, 3; HW: 213/1, 2, 3
8a	Review	
8b	Test #2	Sections 4.3 to 5.3
9a	6.1 Interpretations of Division	Activities:CA-100/1, 2; CA-101/1 to 7; Division by Zero: CA-102/1 to 4; PRACTICE: 229/1, 2, 4, 5, 6, 7, 8; HW: 230/1, 2, 5, 6, 7
9b	6.2 Division & Fractions, Division with Remainder	Activities: CA-103/all; PRACTICE: 236/1, 3; HW: 237/5, 6, 7, 9
10a	6.3 Why Division Algorithms Work	Activities:CA-107/1, 2, 4; CA-108/1, 2; PRACTICE: 247/1, 2, 3, 4, 8; HW: 250/2, 3, 4, 5, 8, 9, (21)
10b	6.4 Fraction Division from the “How Many Groups” Perspective	Activities:CA-111/2 to 5; CA-112/1, 2, 3; PRACTICE: 257/1, 2, 3, 4; HW: 259/2, 3, 4, 5, 7, 10
11a	6.5 Fraction Division from the “How Many Units in One Group” Perspective	Activities: CA-114/2-5; CA-115/1 to 7; PRACTICE: 266/1, 2; HW: 268/2, 4, 5, 6, 7, 8, 9, 10, 11
12a	6.6 Dividing Decimals	Activities:CA-116/1, 2, 3; CA-117/1, 2, 3; PRACTICE: 275/2, 3, 4, 5, 6; HW: 276/2, 3, 5, (9)
12b		
13a	Review	
13b	Test 3	Sections 6.1 to 6.6
14a	Review	
14b	Review	
15	Final Exam	