Grade 3: Unit 3: Lesson 8 From Drawings to an Algorithm

Learning Goals:

- Interpret (orally and in writing) the steps of a written subtraction algorithm.
- Match (orally) base-ten diagrams and algorithms that represent the same subtraction strategy.

Activity Purpose

• Students to use their knowledge of base-ten diagrams and place value to make sense of a subtraction algorithm.

Approaches to Monitor

• Look for students that make clear connections between the representations.

1	From Drawings to an Algorithm
Jada ar	nd Kiran each found the value of 391 – 215. Their work is shown.
Kiran's	algorithm 300 90
	- (200+ 10 + 5)
Exp	Started WIth 391 3054904
2 Exp	Dain how Kiran recorded decomposing 1 ten into more ones.
3 Fin	ish Kiran's work.
	1001-10+(

imagine learning

Grade 4: Unit 4: Lesson 21 What If There is Nothing to Decompose?

Learning Goals:

- Interpret (orally) written methods that use the standard algorithm to subtract when the minuend has several zeros.
- Use the standard algorithm to subtract within 100,000 when the minuend has several zeros.

Activity Purpose

• Examine subtraction cases in which non-zero digits are subtracted from zero digits.

Approaches to Monitor

• Look for ways students demonstrate consecutive decomposing when multiple zeros are involved.

³ Find the value of each difference. If you get stuck, try subtracting using the expanded form.

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a.
$$710210$$

 8.030
 -2.615
 $5.4157000 + 1000 + 20 + 10 = 8030$
c. 99
 $8000 + 30 = 8030$
c. 99
 7101013
 5415
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Grade 5: Unit 5: Lesson 16 Sums and Differences



Learning Goal:

 Calculate sums and differences of decimals to hundredths and explain (orally and in writing) strategies used.

Activity Purpose

 Solve problems finding decimal differences and then share thinking and strategies.

Approaches to Monitor

- Standard algorithm
- Other strategies such as adding on or subtracting in different ways by place value

CTIVITY What's the Difference? Find the value of each expression. Explain or show your reasoning. 735-2.6 Z+. 35+.25 7.35 - 2= 5.35 5.35 - .35 = 5 5 - . 25 = 4.75 2 100.8 - 6.03 [0+.D3 100.8 - 6 = 94.894.8 - .03 = 94.5