

## Mini-Map for M.EE.8.NS.2.b

Subject: Mathematics The Number System (NS) Grade: 8

# Learning Outcome

DLM Essential Element	Grade-Level Standard
<b>M.EE.8.NS.2.b</b> Compare quantities represented as decimals in real-world examples to hundredths.	<b>M.8.NS.2</b> Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., $\pi^2$ ).

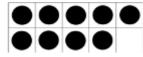
### Linkage Level Descriptions

Initial Precursor	Distal Precursor	Proximal Precursor	Target	Successor
Recognize separateness	Recognize a set model	Represent a decimal to	Compare two decimals	Compare two decimals
as objects that are not	that represents one-	tenths (e.g., 5.2) or	to the hundredths place	to the thousandths
joined together.	tenth or multiple	hundredths (e.g., 7.68)	using symbols (i.e., =, <,	(e.g., 1.050 and 1.762)
	tenths, such as two-	as a fraction (i.e., 52/10	>) to show that one is	using symbols (i.e., =, <,
	tenths, five-tenths, or	and 768/100,	greater than, less than,	>) to show that one is
	eight-tenths.	respectively).	or equal to the other.	greater than, less than,
				or equal to the other
				(e.g., 1.050 < 1.762).

### Initial Precursor and Distal Precursor Linkage Level Relationships to the Target

#### How is the Initial Precursor related to the Target?

Representing fractions as decimals requires a student to be able to recognize that two or more sets or groups of items exist. Work on this skill using a variety of sets. Help students recognize when items are grouped together into a set or separated out. As educators present a set, they label it (e.g., two balls, one marker, three CDs), count the items, label it again, and encourage students to use numerals to label and count the separate sets. Use tools like the ten-frame to point out whole and parts (e.g., a row of 5 dots and a row of 4 dots are parts or subsets of 9).



#### How is the Distal Precursor related to the Target?

As students begin to understand labeling, counting small sets, and recognizing wholes and parts of objects and sets, use set models to provide a wide variety of sets of 10 to model tenths (e.g., for individual shapes to match the fraction, say, "I have 10 cubes in my bag, 1/10 of them are blue.").

#### **Instructional Resources**

Released Testlets

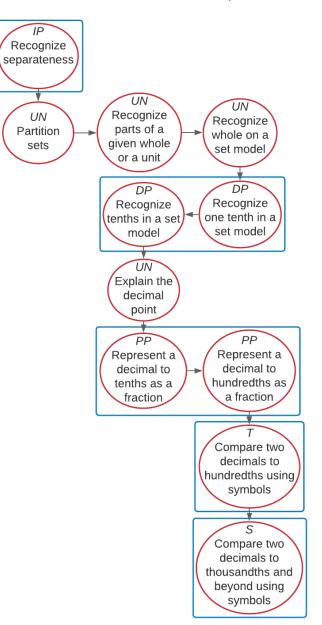
See the Guide to Practice Activities and Released Testlets.

#### Using Untested (UN) Nodes

See the document Using Mini-Maps to Plan Instruction.

#### Link to Text-Only Map

M.EE.8.NS.2.b Compare quantities represented as decimals in real-world examples to hundredths.



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IP DP PP T	Initial Precursor Distal Precursor Proximal Precursor Target Successor	
UN	Untested	
Boxes indicate tested nodes		