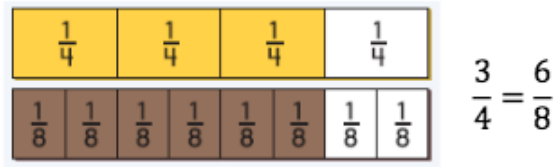
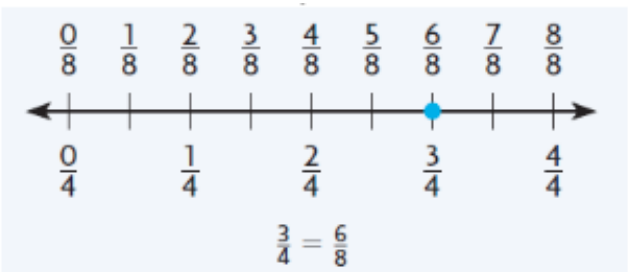
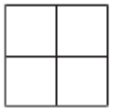
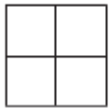
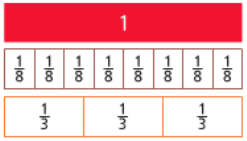
3rd Grade Unit 7

Exploring Equivalency and Comparing Fractions

Overarching Student Learning Goals In this unit, your child will work to build an understanding of the following:	Resources/Tasks to support your child at home.
Use area models to find and name equivalent fractions. Example: $\frac{3}{4} = \frac{6}{8}$ *because they take up the same amount of space.*  $\frac{3}{4} = \frac{6}{8}$	• Virtual Fraction Bars: http://illuminations.nctm.org/Activity.aspx?id=3510 • Printable Fraction Bars: https://bit.ly/2OEtCnU • Khan Academy: https://bit.ly/2xYJeJy Equivalent Fraction Models • Splash Math: https://bit.ly/2IHa11e Equivalent Fraction Models • Use construction paper to have your child show fourths. Ask them to use another piece of paper to find an equivalent to $\frac{1}{4}$
Use number lines to find equivalent fractions. Example: $\frac{3}{4} = \frac{6}{8}$ *because they are at the same location on the number line.*  	• Using an open number line, have your child break the whole into sixths and find 4/6. Use another open number line to find an equivalent fraction of fourths. Then thirds. • Khan Academy: https://bit.ly/2OE4i1e Visualizing Equivalent Fractions • Khan Academy: https://bit.ly/2yec2Nk Generating Equivalent Fractions • Online comparing using a number line: https://bit.ly/2IDMgGZ

Compare fractions with the same denominator (same size parts). - When the denominators are the same, you can compare only the number of pieces, or the numerators. Example: Jeremy and Christina are each making quilt blocks. Both blocks are the same size and both are made of 4 equal-size squares. $\frac{2}{4}$ of Jeremy's squares are green. $\frac{1}{4}$ of Christina's squares are green. Whose quilt block has more green squares? **Jeremy's Quilt Block**  **Christina's Quilt Block** 	• When you order pizza from your favorite pizzeria, pose questions – "What fraction of the pizza did you eat? What fraction of the pizza was left? Who ate a greater amount of pizza?" • Khan Academy: https://bit.ly/2y0QuER Comparing Fractions With Same Denominator
Compare fractions that have the same numerator (same number of parts). - When the numerators are the same, look at the denominators to compare the size of the pieces. Example: *On Saturday, the campers paddled* $\frac{2}{8}$ *of their planned route down the river. On Sunday, they paddled* $\frac{2}{3}$ *of their route down the river. On which day did the campers paddle farther? Shade in the models to compare.* 	• Fraction War – record various fractions on index cards to play war. • Khan Academy: https://bit.ly/2O7gaJG Comparing Fractions With the Same Numerator
Ongoing Fluency: Understanding x9 facts- Students can connect ×9 facts to ×10 facts to gain fluency with ×9 facts. Students can recognize when to use known facts to solve ×9 facts (i.e. 0×9, 1×9, 2×9, 3×9, 4×9, 5×9, 6×9, 10×9)  *Ex: What is ten groups of 10? (10 x 10)? What if you have one less group of 10 (9 x 10)?*	• Video: https://bit.ly/2DVLoig Thinking 9 facts as 10-1 facts • Origo Video: https://bit.ly/2OIn5sF Build Down Strategy For Multiplication