



# 5<sup>th</sup> Grade

## Tier 2 Intervention Lessons

Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness for 4.NF.3c:** Add and subtract mixed numbers with like denominators

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## IES Recommendations for Tier 2 and 3 intervention lessons:

2. Instructional materials for students receiving interventions should focus intensely on in-depth treatment of whole numbers in kindergarten through grade 5 and on rational numbers in grades 4 through 8. These materials should be selected by committee.	<b>Low</b>
3. Instruction during the intervention should be explicit and systematic. This includes providing models of proficient problem solving, verbalization of thought processes, guided practice, corrective feedback, and frequent cumulative review.	<b>Strong</b>
4. Interventions should include instruction on solving word problems that is based on common underlying structures.	<b>Strong</b>
5. Intervention materials should include opportunities for students to work with visual representations of mathematical ideas and interventionists should be proficient in the use of visual representations of mathematical ideas.	<b>Moderate</b>
6. Interventions at all grade levels should devote about 10 minutes in each session to building fluent retrieval of basic arithmetic facts.	<b>Moderate</b>
7. Monitor the progress of students receiving supplemental instruction and other students who are at risk.	<b>Low</b>
8. Include motivational strategies in tier 2 and tier 3 interventions.	<b>Low</b>

(Institute of Educational Sciences, Assisting Students Struggling with Mathematics: Response to Intervention (RtI) for Elementary and Middle Schools, 2009, p. 6)

## Gradual release of responsibility model

### Teacher Responsibility

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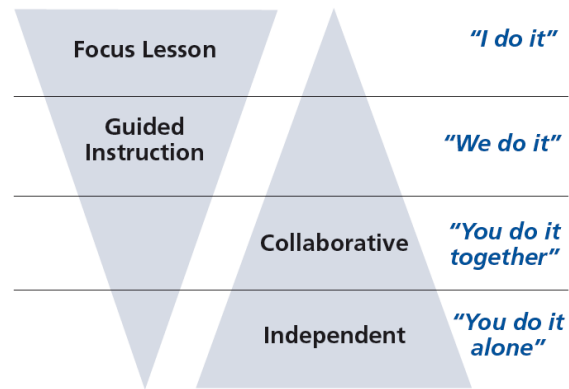


Figure 1

[\(Dr. Douglas Fisher, Effective Use of the Gradual Release of Responsibility Model\)](#)



# Planning Guide: Session 1

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

Recommended Actions	
<b>Beginning</b> (15 min.)	<p><u>Review</u> the readiness standard with the intervention group using the <b>Guided Review</b></p> <ul style="list-style-type: none"><li>➤ Introduce the learning target and why it is important for future learning</li><li>➤ Read each question on the Guided Review and ask students to share what they remember from the previous school year.</li></ul>
<b>Middle</b> (5 min.)	<ul style="list-style-type: none"><li>➤ Ask students to <u>reflect</u> on their progress towards the learning target<ul style="list-style-type: none"><li>➤ What did I remember about the learning target?</li><li>➤ What did I learn today about the learning target?</li><li>➤ How confident do I feel about doing the learning target on my own?</li></ul></li></ul>
<b>End</b> (10 min.)	<ul style="list-style-type: none"><li>➤ <u>Assess</u> each student's progress using <b>Quick Check – Form A</b></li><li>➤ Guide students to self-correct their <b>Quick Check – Form A</b></li><li>➤ Guide students to <u>chart their progress</u> by recording the date and Quick Check score in their <b>Growth Chart</b></li><li>➤ Collect each student's Quick Check and Growth Chart</li></ul>
<b>After</b>	<ul style="list-style-type: none"><li>➤ Create sub-groups to differentiate the middle of sessions 2 through 8<ul style="list-style-type: none"><li>○ Group 1 – Include students who <u>did not</u> meet the learning goal</li><li>○ Group 2 – Include students who met or exceeded the learning goal</li></ul></li></ul>



# 5<sup>th</sup> Grade Fall Guided Review

Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

1.

Which sign compares the two fractions?

$$\frac{3}{5} \quad \text{—} \quad \frac{4}{9}$$

<       >       =

2.

Which sign compares the two fractions?

$$\frac{2}{3} \quad \text{—} \quad \frac{6}{9}$$

<       >       =

3.

Which sign compares the two fractions?

$$\frac{3}{4} \quad \text{—} \quad \frac{5}{7}$$

<       >       =



# 5<sup>th</sup> Grade Winter Guided Review

Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

1.

Which sign compares the two fractions?

$$\frac{4}{5} \quad \text{—} \quad \frac{5}{9}$$

<       >       =

2.

Which sign compares the two fractions?

$$\frac{3}{4} \quad \text{—} \quad \frac{15}{20}$$

<       >       =

3.

Which sign compares the two fractions?

$$\frac{4}{7} \quad \text{—} \quad \frac{5}{9}$$

<       >       =



# 5<sup>th</sup> Grade Spring Guided Review

Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

1.

Which sign compares the two fractions?

$$\frac{2}{3} \quad \text{—} \quad \frac{3}{8}$$

<       >       =

2.

Which sign compares the two fractions?

$$\frac{2}{5} \quad \text{—} \quad \frac{8}{20}$$

<       >       =

3.

Which sign compares the two fractions?

$$\frac{3}{7} \quad \text{—} \quad \frac{4}{9}$$

<       >       =



# Session 1: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I remember today about comparing fractions with different numerators and different denominators?
  
- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*





# Quick Check - Form A

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

**1.**

$$\frac{2}{3} \text{ — } \frac{4}{5}$$

**2.**

$$\frac{1}{4} \text{ — } \frac{4}{12}$$

**3.**

$$\frac{3}{4} \text{ — } \frac{2}{7}$$

**4.**

$$\frac{3}{5} \text{ — } \frac{5}{8}$$

**5.**

$$\frac{1}{3} \text{ — } \frac{3}{9}$$

**6.**

$$\frac{4}{6} \text{ — } \frac{3}{4}$$



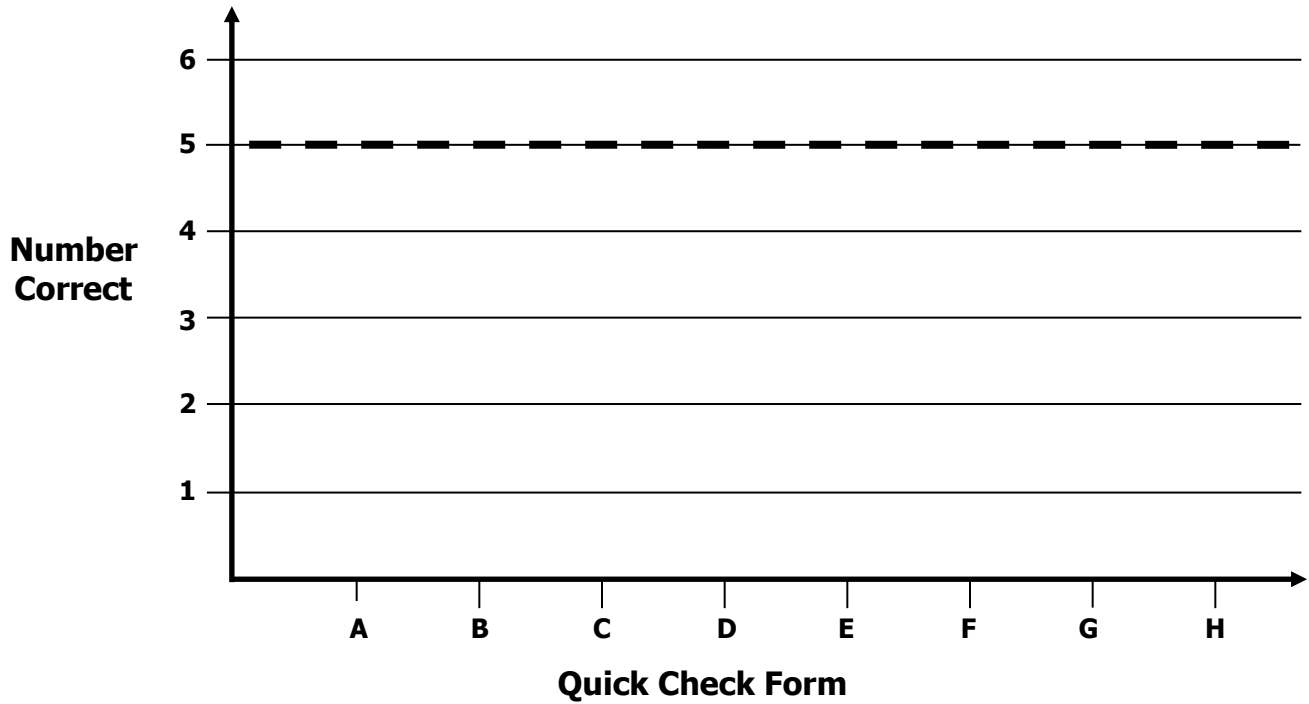
# Growth Chart

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Goal:** 5 out of 6 correct



Intervention	Date	Score
Session 1:		
Session 2:		
Session 3:		
Session 4:		
Session 5:		
Session 6:		
Session 7:		
Session 8:		



# Planning Guide: Sessions 2 Through 8

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

<b>Recommended Actions</b>			
<b>Beginning</b> (5 min.)	<ul style="list-style-type: none"> <li>➤ Review the learning target with the whole group and ask each student to set a goal for today's learning</li> </ul>		
<b>Middle</b> (15 min.)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>Group 1:</b> <i>(Students who <u>did not</u> meet the learning goal on the previous Quick Check)</i></p> <ul style="list-style-type: none"> <li>➤ Model solving a word problem – “I do”</li> <li>➤ Guided Practice – “We do together/ You do together”</li> </ul> <p><b>Session 2:</b> Use fraction strips to compare fractions with different numerators/denominators</p> <p><b>Session 3:</b> Use number lines to compare fractions with different numerators/denominators</p> <p><b>Session 4:</b> Use common denominators to compare fractions with different numerators and denominators</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>Group 2:</b> <i>(Students who met the learning goal)</i></p> <ul style="list-style-type: none"> <li>➤ Independent practice – “You do alone”</li> </ul> <p><b>Activity:</b> <i>“Whose Fraction is Greater?”</i></p> <p style="text-align: center;"><i>(Look for additional activities in 4<sup>th</sup> grade core instruction resources.)</i></p> </td> </tr> </table>	<p><b>Group 1:</b> <i>(Students who <u>did not</u> meet the learning goal on the previous Quick Check)</i></p> <ul style="list-style-type: none"> <li>➤ Model solving a word problem – “I do”</li> <li>➤ Guided Practice – “We do together/ You do together”</li> </ul> <p><b>Session 2:</b> Use fraction strips to compare fractions with different numerators/denominators</p> <p><b>Session 3:</b> Use number lines to compare fractions with different numerators/denominators</p> <p><b>Session 4:</b> Use common denominators to compare fractions with different numerators and denominators</p>	<p><b>Group 2:</b> <i>(Students who met the learning goal)</i></p> <ul style="list-style-type: none"> <li>➤ Independent practice – “You do alone”</li> </ul> <p><b>Activity:</b> <i>“Whose Fraction is Greater?”</i></p> <p style="text-align: center;"><i>(Look for additional activities in 4<sup>th</sup> grade core instruction resources.)</i></p>
<p><b>Group 1:</b> <i>(Students who <u>did not</u> meet the learning goal on the previous Quick Check)</i></p> <ul style="list-style-type: none"> <li>➤ Model solving a word problem – “I do”</li> <li>➤ Guided Practice – “We do together/ You do together”</li> </ul> <p><b>Session 2:</b> Use fraction strips to compare fractions with different numerators/denominators</p> <p><b>Session 3:</b> Use number lines to compare fractions with different numerators/denominators</p> <p><b>Session 4:</b> Use common denominators to compare fractions with different numerators and denominators</p>	<p><b>Group 2:</b> <i>(Students who met the learning goal)</i></p> <ul style="list-style-type: none"> <li>➤ Independent practice – “You do alone”</li> </ul> <p><b>Activity:</b> <i>“Whose Fraction is Greater?”</i></p> <p style="text-align: center;"><i>(Look for additional activities in 4<sup>th</sup> grade core instruction resources.)</i></p>		
<b>End</b> (10 min.)	<ul style="list-style-type: none"> <li>➤ Bring the students back together.</li> <li>➤ Ask students to reflect on their progress towards the learning target               <ul style="list-style-type: none"> <li>○ What did I learn today about comparing fractions with different numerators and denominators?</li> <li>○ How confident do you feel about comparing fractions with different numerators and denominators on my own? (Thumbs up, down, or sideways)</li> </ul> </li> <li>➤ Assess each student's progress using the next <b>Quick Check</b> form</li> <li>➤ Guide students to self-correct their <b>Quick Check</b></li> <li>➤ Guide students to chart their progress in their <b>Growth Chart</b> <ul style="list-style-type: none"> <li>○ If not using Delta Math lessons, record the activity in the table</li> </ul> </li> <li>➤ Collect each student's <b>Quick Check</b> and <b>Growth Chart</b></li> </ul>		
<b>After</b>	<ul style="list-style-type: none"> <li>➤ Regroup students to differentiate the middle of sessions 3 through 8               <ul style="list-style-type: none"> <li>○ Promote students who met the learning goal to group 2</li> <li>○ Exit students who met the learning goal for a third time</li> </ul> </li> <li>➤ Problem solve with a team to plan additional support for students who did not exit</li> </ul>		



## Session 2: Modeling (I Do)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

Chris and Maria ran as fast and far as they could before stopping to catch their breath. Chris ran five-eighths of a mile and Maria ran three-fourths of a mile. Who ran further before stopping to catch their breath?



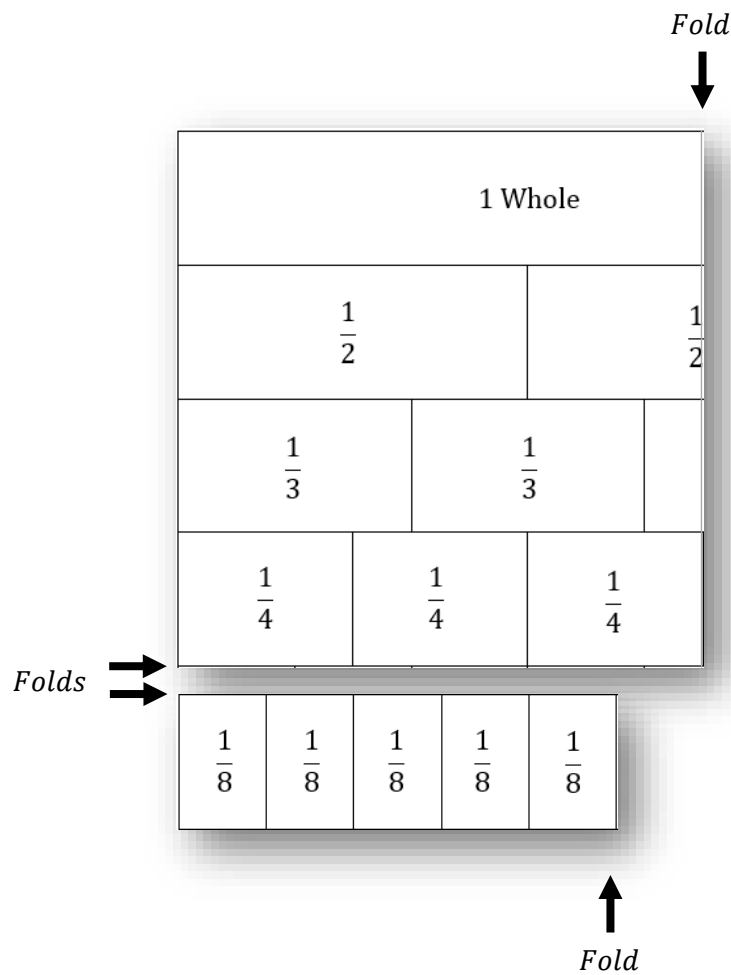
# Session 2: Modeling (I Do – Visual Support)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

Chris and Maria ran as fast and far as they could before stopping to catch their breath. Chris ran five-eighths of a mile and Maria ran three-fourths of a mile. Who ran further before stopping to catch their breath?



# Session 2: Modeling (I Do - Teacher Notes)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

Chris and Maria ran as fast and far as they could before stopping to catch their breath. Chris ran five-eighths of a mile and Maria ran three-fourths of a mile. Who ran further before stopping to catch their breath?

**I am going to think aloud to model solving this problem.**

**Your job is to watch, listen, think and ask questions.**

**First, it is important to know what the problem is about.**

**This problem is about Chris and Maria running as fast and far as they could before stopping to catch their breath.**

**Second, I need to determine what I need to find.**

**I need to find who ran further.**

**Third, I need to determine what I know.**

**I know that Chris ran five-eighths of a mile and Maria ran three-fourths of a mile.**

**Fourth, I need to figure out what I can try.**

**I am going to try using fraction strips to find who ran further.**

(Hold up two sets of fraction strips)

**Since I am comparing five-eighths of a mile to three-fourths of a mile, I am going to find fractions cards to set up the problem.**

(Place the fraction cards on the "Modelling" page.)

**Now, I will represent five-eighths of a mile using fraction strips by folding the template so that the "eighths" are visible as the bottom row...**

**then I will fold it again to show five-eighths by hiding one of the eighths.**

(Fold the template twice so that three-fourths are visible at the bottom.)

**Next, I will represent three-fourths by folding another fraction template so that three-fourths are visible as the top row...**

(Fold the other template twice so that three sixths are visible at the top.)

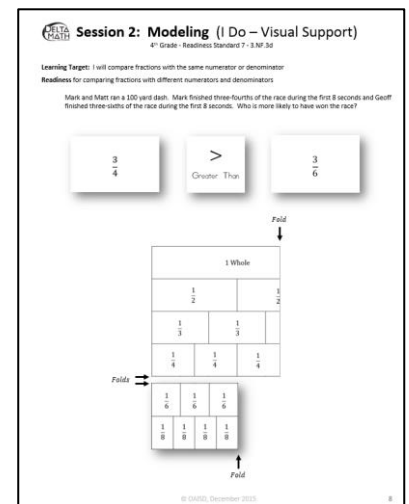
**I see that five-eighths of a mile is less than three-fourths.**

(Point to the difference between the two lengths and place the "less-than" card between the fraction cards.)

**Therefore, I Maria ran further than Chris.**

**Last, I need to make sure that my answer makes sense.**

**I found that Maria ran further than Chris. It makes sense because I folded fraction strips to compare the fractional parts of a mile that were ran. I saw that five-eighths was less than three-fourths, so it seems reasonable that Maria ran further.**



# Session 2: Modeling (I Do - Teacher Notes Cont.)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

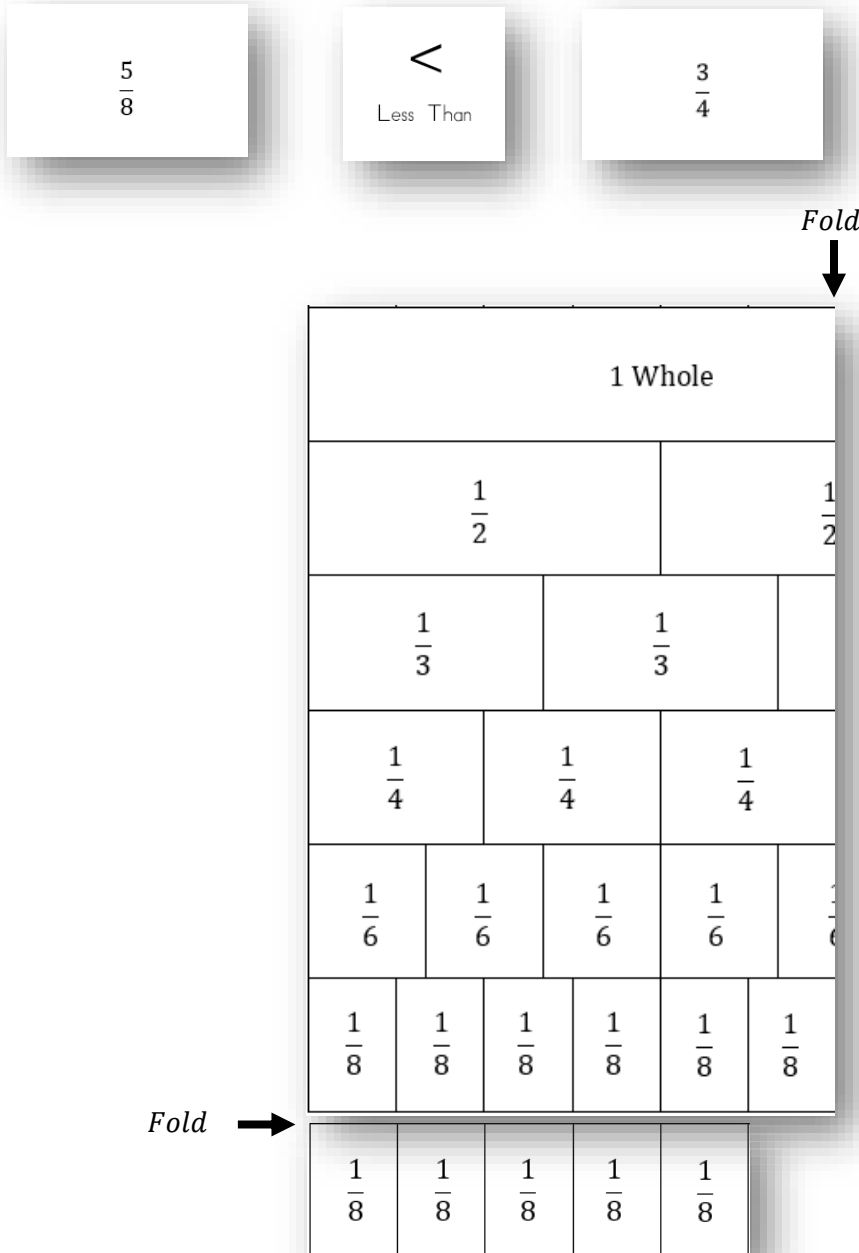
## Looking for structure:

I can also show that five-eighths is less than three-fourths by finding an equivalent fraction with a common denominator.

When I unfold my first fraction template, I see that three-fourths is equal to six-eighths.

*(Fold the template vertically to show three-fourths and six-eighths)*

Since these two fractions are equal, I can use six-eighths in place of three-fourths so that the two fractions we are comparing have the same size parts. Now, all I have to do is compare the number of parts for each fraction...5 is less than 6, so five-eighths is less than six-eighths.



**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 2: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use fraction strips to find equivalent fractions with common denominators to compare fractions.

<p>1.</p> $\frac{3}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$	<p>2.</p> $\frac{2}{4} \quad \underline{\hspace{1cm}} \quad \frac{4}{8}$
<p>3.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{6}$	<p>4.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$

**You Do Together:** (As a class, or in small groups)

- Students take turns leading using fraction strips with common denominators to compare fractions.

<p>5.</p> $\frac{2}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$	<p>6.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$
<p>7.</p> $\frac{2}{6} \quad \underline{\hspace{1cm}} \quad \frac{1}{3}$	<p>8.</p> $\frac{3}{6} \quad \underline{\hspace{1cm}} \quad \frac{2}{3}$





# Modeling & Guided Practice Cards

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Use for Problem 1 $\frac{3}{8}$ _____ $\frac{1}{2}$	Use for Problem 2 $\frac{2}{4}$ _____ $\frac{4}{8}$
Use for Problem 3 $\frac{2}{3}$ _____ $\frac{3}{6}$	Use for Problem 4 $\frac{3}{4}$ _____ $\frac{1}{2}$
Use for Problem 5 $\frac{2}{8}$ _____ $\frac{1}{2}$	Use for Problem 6 $\frac{2}{3}$ _____ $\frac{1}{2}$
Use for Problem 7 $\frac{2}{6}$ _____ $\frac{1}{3}$	Use for Problem 8 $\frac{3}{6}$ _____ $\frac{2}{3}$
Use for Modelling $\frac{5}{8}$ _____ $\frac{3}{4}$	



# Fraction Strips (4 Sets)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Directions:** Each student should receive two sets of strips...do not cut into individual strips. (See example on p. 9, *fold the fraction strips twice to show fractional parts of a whole.*)

1 Whole								1 Whole							
$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
1 Whole								1 Whole							
$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$



## Session 2: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form B

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

**1.**

$$\frac{1}{3} \text{ — } \frac{2}{7}$$

**2.**

$$\frac{2}{3} \text{ — } \frac{6}{12}$$

**3.**

$$\frac{3}{5} \text{ — } \frac{4}{7}$$

**4.**

$$\frac{3}{4} \text{ — } \frac{6}{8}$$

**5.**

$$\frac{1}{5} \text{ — } \frac{3}{10}$$

**6.**

$$\frac{5}{6} \text{ — } \frac{3}{4}$$



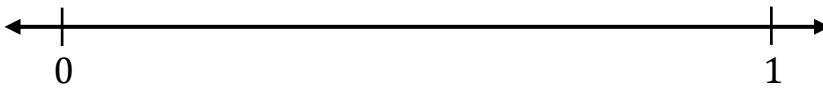
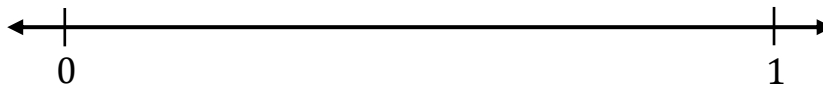
# Session 3: Modeling (I Do)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

Tonight's weather forecast is predicting one-half of a foot of snow for Grand Rapids, Michigan and five-sixths of a foot for Holland. According to this forecast, which city should expect more snow?





# Session 3: Modeling (I Do – Visual Support)

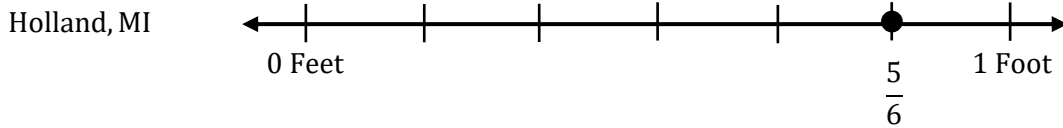
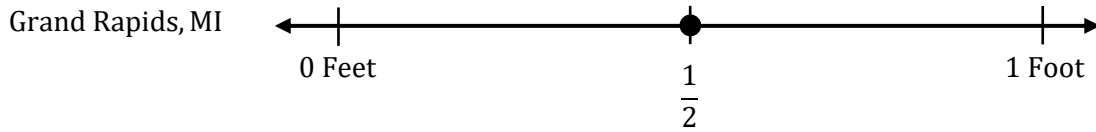
5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

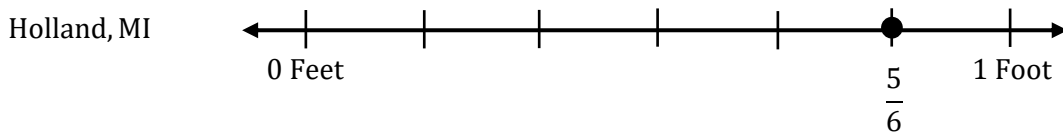
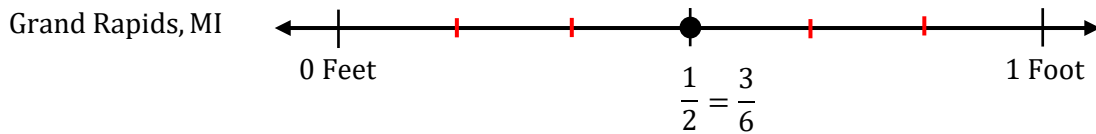
**Readiness** for adding and subtracting mixed numbers with like denominators

Tonight's weather forecast is predicting one-half of a foot of snow for Grand Rapids, Michigan and five-sixths of a foot for Holland. According to this forecast, which city should expect more snow?

## Snow Fall Predictions



## Snow Fall Predictions





# Session 3: Modeling (I Do - Teacher Notes)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

Tonight’s weather forecast is predicting one-half of a foot of snow for Grand Rapids, Michigan and five-sixths of a foot for Holland. According to this forecast, which city should expect more snow?

**I am going to think aloud to model solving this problem.**

**Your job is to watch, listen, think and ask questions.**

**First, it is important to know what the problem is about.**

**This problem is about tonight’s weather forecast.**

**Second, I need to determine what I need to find.**

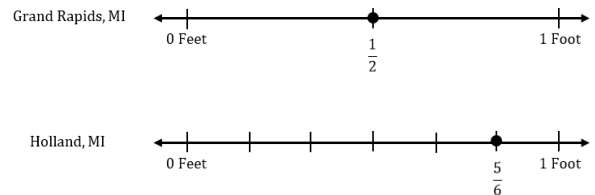
**I need to find which city is expecting more snow.**

**Third, I need to determine what I know.**

**I know that Grand Rapids, Michigan is expecting one-half of a foot of snow and Holland is expecting five-sixths of a foot of snow.**

**Fourth, I need to figure out what I can try.**

Snow Fall Predictions



**I am going to try using number lines to find common denominators.**

(Label the first number line with the title “Grand Rapids, MI” and the second “Holland, MI”.)

**I will use the “halves” fraction strip to find one-half on the number line.**

(Place the “halves” strip above the line and draw a vertical dash to separate each part. Then, draw a dot and write  $\frac{1}{2}$  underneath it.)

**I will use the “sixths” fraction strip to find five-sixths of a foot.**

(Place the “sixths” strip above the line and draw vertical dashes to separate each part. Then, draw a dot and write  $\frac{5}{6}$  underneath it.)

**Five-sixths of a foot is located the distance five-sixths from zero, or one-sixth from 1.**

(Draw the dot, then write  $\frac{5}{6}$  underneath and label it “Holland, MI”.)

**I see that one-half of a foot is less than five-sixths because one-half is closer to zero than five-sixths. Therefore, Holland is expecting more snow than Grand Rapids.**

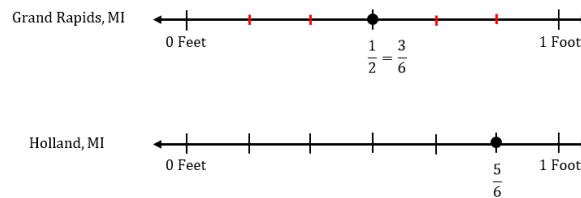
(Point to the one-half on the number line.)

(Continued)

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

Snow Fall Predictions



Although I can compare two fractions visually, I can also do this by finding common denominators.

Anytime one denominator is a multiple of the other, since 2 times 3 is 6, I can break the smaller denominator into the same number of smaller parts.

If I separate each half into 3 equal sections using another color, I now have the whole broken into 6 equal sections.

*(Draw vertical marks in red to make 6 equal sections and write the digit "6" in the denominator next to the  $\frac{1}{2}$ .)*

And, the number of parts we have is now three.

*(Point to the first 3 parts and write the digit "3" in the numerator next to the  $\frac{1}{2}$ .)*

Now that I have two fractions with the same size parts, I can compare the number of parts represented in each numerator...five-sixths is greater than three-sixths.

Last, I need to make sure that my answer makes sense.

I found that five-sixths is greater than one-half. It makes sense because I drew one-half and five-sixths on a number line and saw that five-sixths is further from zero than one-half. I also found common denominators to use fractions with the same size parts to make it easy to compare!



**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 3: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use number lines to help you use common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>1.</p> $\frac{3}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$	
<p>2.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>3.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{1}{4}$	
<p>4.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{4}{5}$	

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 3: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Students take turns leading to use number lines and common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>5.</p> $\frac{5}{8} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>6.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>7.</p> $\frac{1}{3} \quad \underline{\hspace{1cm}} \quad \frac{2}{4}$	
<p>8.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{3}$	

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 3: Guided Practice (We Do – Teacher Notes)

**We Do Together:** (Teacher Actions)

- Use number lines to help you use common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p><b>1.</b></p> $\frac{3}{8} < \frac{1}{2}$ $\frac{3}{8} < \frac{4}{8}$	<p style="text-align: center; color: red;"><i>Separate each half into 4 equal parts</i></p>
<p><b>2.</b></p> $\frac{2}{3} > \frac{3}{6}$ $\frac{4}{6} > \frac{3}{6}$	<p style="text-align: center; color: red;"><i>Separate each third into 2 equal parts</i></p>

**Problem type B: One denominator is NOT a multiple of the other.**

<p><b>3.</b></p> $\frac{2}{3} > \frac{1}{4}$ $\frac{8}{12} > \frac{3}{12}$	<p style="text-align: center; color: red;"><i>Separate each third into 4 equal parts</i></p> <p style="text-align: center; color: red;"><i>Separate each fourth into 3 equal parts</i></p>
<p><b>4.</b></p> $\frac{3}{4} < \frac{4}{5}$ $\frac{15}{20} < \frac{16}{20}$	<p style="text-align: center; color: red;"><i>Separate each fourth into 5 equal parts</i></p> <p style="text-align: center; color: red;"><i>Separate each fifth into 4 equal parts</i></p>



## Session 3: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form C

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

**1.**

$$\frac{2}{5} \text{ — } \frac{1}{3}$$

**2.**

$$\frac{3}{4} \text{ — } \frac{4}{12}$$

**3.**

$$\frac{3}{5} \text{ — } \frac{4}{7}$$

**4.**

$$\frac{2}{3} \text{ — } \frac{8}{12}$$

**5.**

$$\frac{2}{3} \text{ — } \frac{3}{9}$$

**6.**

$$\frac{5}{6} \text{ — } \frac{3}{4}$$



# Session 4: Modeling (I Do)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

On the Delta Math readiness screener, Dominik chose “>” as the answer to the following question:

Which sign compares the two fractions:

$$\frac{5}{8} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$$

>	<	=
---	---	---

Is he correct? If not, what is the correct answer?



# Session 4: Modeling (I Do – Teacher Notes)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

On the Delta Math readiness screener, Dominik chose “>” as the answer to the following question

“Which sign compares the two fractions:

$$\frac{5}{8} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$$

>	<	=
---	---	---

Is he correct? If not, what is the correct answer?

**I am going to think aloud to model solving this problem....your job is to watch, listen, think and ask questions.**

**First, it is important to know what the problem is about.**

**This problem is about Dominik answering a comparing fractions problem on a Delta Math readiness screener.**

**Second, I need to determine what I need to find.**

**I need to find if Dominik chose the correct answer and if not, I need to find the correct answer.**

**Third, I need to determine what I know.**

**I know that Dominik chose the greater-than sign.**

**Fourth, I need to figure out what I can try.**

**I am going to try finding common denominators to compare the fractions and see if Dominik’s answer is correct.**

$$\frac{5}{8} \quad \underline{\hspace{1cm}} \quad \frac{3 \times 2}{4 \times 2} = \frac{6}{8}$$

**Since one denominator is a multiple of the other, I can break the smaller denominator into the same number of parts as the other.**

**I need to double the number of fourths to get the same size parts as eighths.**

*(Write x 2 next to the denominator, 4)*

**And, since I had three-fourths, I need to double the three to find how many eighths are equal to three-fourths.**

*(Write x 2 next to the numerator, 3)*

**By multiplying the denominator and numerator by 2, I showed that three-fourths is equal to six-eighths.**

*(Write “=  $\frac{6}{8}$ ” next to the fraction three-fourths.)*

**And six-eighths is greater than five-eighths...so three-fourths is greater than five-eighths.**

**Last, I need to make sure that my answer makes sense.**

**I found that Dominik did not choose the incorrect answer. It makes sense because I used common denominators to find that three-fourths is equal to six eighths so that I could compare two fractions that have parts that are the same size.**

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 4: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use common denominators to compare fractions. Then use number lines to check your work.

**Problem type A: One denominator is a multiple of the other.**

<p>1.</p> $\frac{3}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$	
<p>2.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>3.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{1}{4}$	
<p>4.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{4}{5}$	



**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 4: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Students take turns leading to use common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>5.</p> $\frac{3}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{4}$	
<p>6.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{4}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>7.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{2}{4}$	
<p>8.</p> $\frac{1}{4} \quad \underline{\hspace{1cm}} \quad \frac{2}{3}$	

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 4: Guided Practice (We Do – Teacher Notes)

**We Do Together:** (Teacher Actions)

- Use common denominators to compare fractions. Then use number lines to check your work.

**Problem type A: One denominator is a multiple of the other.**

<p>1.</p> <p style="color: red;"><i>Multiply each half by 4</i></p> $\frac{3}{8} < \frac{1 \times 4}{2 \times 4} = \frac{4}{8}$ <p style="color: red;"><i>Three-eighths is less than four-eighths</i></p>	
<p>2.</p> <p style="color: red;"><i>Multiply each third by 2</i></p> $\frac{4}{6} = \frac{2 \times 2}{2 \times 3} > \frac{3}{6}$ <p style="color: red;"><i>Four-sixths is greater than three-sixths</i></p>	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>3.</p> <p style="color: red;"><i>Multiply each third by 4</i></p> <p style="color: red;"><i>Multiply each fourth by 3</i></p> $\frac{8}{12} = \frac{4 \times 2}{4 \times 3} > \frac{1 \times 3}{4 \times 3} = \frac{3}{12}$ <p style="color: red;"><i>Eight-twelfths is greater than three-twelfths</i></p>	
<p>4.</p> <p style="color: red;"><i>Multiply each fourth by 5</i></p> <p style="color: red;"><i>Multiply each fifth by 4</i></p> $\frac{15}{20} = \frac{5 \times 3}{5 \times 4} < \frac{4 \times 4}{5 \times 4} = \frac{16}{20}$ <p style="color: red;"><i>Fifteen-twentieths is less than sixteen-twentieths</i></p>	



# Session 4: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form D

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

1.

$$\frac{2}{5} \text{ — } \frac{1}{4}$$

2.

$$\frac{1}{6} \text{ — } \frac{2}{12}$$

3.

$$\frac{5}{6} \text{ — } \frac{4}{7}$$

4.

$$\frac{3}{4} \text{ — } \frac{5}{8}$$

5.

$$\frac{2}{3} \text{ — } \frac{8}{12}$$

6.

$$\frac{5}{8} \text{ — } \frac{3}{4}$$

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 5: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use number lines to help you use common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>1.</p> $\frac{7}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$	
<p>2.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{4}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>3.</p> $\frac{1}{3} \quad \underline{\hspace{1cm}} \quad \frac{1}{4}$	
<p>4.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{3}{5}$	

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 5: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Students take turns leading to use number lines and common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>5.</p> $\frac{7}{8} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>6.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{3}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>7.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>8.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{5}$	



# Session 5: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form E

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

**1.**

$$\frac{2}{3} \text{ — } \frac{4}{5}$$

**2.**

$$\frac{1}{4} \text{ — } \frac{4}{12}$$

**3.**

$$\frac{3}{4} \text{ — } \frac{2}{7}$$

**4.**

$$\frac{3}{5} \text{ — } \frac{5}{8}$$

**5.**

$$\frac{1}{3} \text{ — } \frac{3}{9}$$

**6.**

$$\frac{4}{6} \text{ — } \frac{3}{4}$$



**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 6: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use number lines to help you use common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>1.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{1}{2}$	
<p>2.</p> $\frac{1}{3} \quad \underline{\hspace{1cm}} \quad \frac{2}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>3.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>4.</p> $\frac{1}{4} \quad \underline{\hspace{1cm}} \quad \frac{2}{5}$	

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 6: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Students take turns leading to use number lines and common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>5.</p> $\frac{4}{8} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>6.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{8}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>7.</p> $\frac{1}{3} \quad \underline{\hspace{1cm}} \quad \frac{2}{5}$	
<p>8.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{3}$	



# Session 6: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form F

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

**1.**

$$\frac{1}{3} \text{ — } \frac{2}{7}$$

**2.**

$$\frac{2}{3} \text{ — } \frac{6}{12}$$

**3.**

$$\frac{3}{5} \text{ — } \frac{4}{7}$$

**4.**

$$\frac{3}{4} \text{ — } \frac{6}{8}$$

**5.**

$$\frac{1}{5} \text{ — } \frac{3}{10}$$

**6.**

$$\frac{5}{6} \text{ — } \frac{3}{4}$$

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 7: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use common denominators to compare fractions. Then use number lines to check your work.

**Problem type A: One denominator is a multiple of the other.**

<p>1.</p> $\frac{3}{8} \quad \underline{\hspace{1cm}} \quad \frac{2}{4}$	
<p>2.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{3}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>3.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{5}$	
<p>4.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{4}{6}$	

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 7: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Students take turns leading to use common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>5.</p> $\frac{5}{8} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>6.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>7.</p> $\frac{1}{3} \quad \underline{\hspace{1cm}} \quad \frac{2}{4}$	
<p>8.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{3}$	



# Session 7: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form G

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

**1.**

$$\frac{2}{5} \text{ — } \frac{1}{3}$$

**2.**

$$\frac{3}{4} \text{ — } \frac{4}{12}$$

**3.**

$$\frac{3}{5} \text{ — } \frac{4}{7}$$

**4.**

$$\frac{2}{3} \text{ — } \frac{8}{12}$$

**5.**

$$\frac{2}{3} \text{ — } \frac{3}{9}$$

**6.**

$$\frac{5}{6} \text{ — } \frac{3}{4}$$



**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 8: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use common denominators to compare fractions. Then use number lines to check your work.

**Problem type A: One denominator is a multiple of the other.**

<p>1.</p> $\frac{7}{8} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>2.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{4}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>3.</p> $\frac{1}{3} \quad \underline{\hspace{1cm}} \quad \frac{2}{4}$	
<p>4.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{4}{5}$	

**Learning Target:** I will compare two fractions with different numerators and different denominators

## Session 8: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Students take turns leading to use common denominators to compare fractions.

**Problem type A: One denominator is a multiple of the other.**

<p>5.</p> $\frac{3}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{4}$	
<p>6.</p> $\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{2}{6}$	

**Problem type B: One denominator is NOT a multiple of the other.**

<p>7.</p> $\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$	
<p>8.</p> $\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{2}{3}$	



# Session 8: Self-Reflection

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

Briefly discuss student responses:

- What did I learn today about comparing fractions with different numerators and different denominators?
  
- How confident do I feel about comparing fractions with different numerators and different denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form H

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will compare two fractions.

**Directions:** Fill in the blank. (>, <, =)

(Work time: 5 minutes)

1.

$$\frac{2}{5} \text{ — } \frac{1}{4}$$

2.

$$\frac{1}{6} \text{ — } \frac{2}{12}$$

3.

$$\frac{5}{6} \text{ — } \frac{4}{7}$$

4.

$$\frac{3}{4} \text{ — } \frac{5}{8}$$

5.

$$\frac{2}{3} \text{ — } \frac{8}{12}$$

6.

$$\frac{5}{8} \text{ — } \frac{3}{4}$$



# Independent Practice (You Do)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

**Readiness** for adding and subtracting mixed numbers with like denominators

**Title of Game:** Play “Whose fraction is Greater?”

**Number of Players:** 2

**Objective:** To be the player with the most (or least) cards at the end of the game.

## Materials:

- 1 set of fraction-cards per player (Player 1 – Set A and Player 2 – Set B.)
- 1 recording sheet per player

## Directions:

- Each player turns over their top card. Both players write the fraction on their recording sheet
- Both players write each fraction on their recording sheet and uses common denominators to compare the two fractions.
- The player with the greater fraction writes the correct inequality sign and says,  
*“My fraction \_\_\_ is greater than \_\_\_, because \_\_\_\_.”*
- The player with the greater fraction takes both cards
- Repeat until all cards have been played

## Decide the Winner:

- At the end of the game, the teacher flips a coin
  - If the coin lands **heads up**, the winner is the player with the **greater** number of cards
  - If the coin lands **tails up**, the winner is the player with the **lesser** number of cards

## Accessibility Option:

- Use the optional recording sheet for students requiring visual support for verifying answers. (p. 31 and 32)



Names \_\_\_\_\_

Date \_\_\_\_\_

5<sup>th</sup> Grade - RS 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

# Independent Practice: Whose Fraction is Greater?

(Recording Sheet)

**Directions:**

- Each player turns over their top card. Both players write the fraction on their recording sheet
- Both players write each fraction on their recording sheet and uses common denominators to compare the two fractions.
- The player with the greater fraction writes the correct inequality sign and says,  
*“My fraction \_\_\_ is greater than \_\_\_, because \_\_\_\_.”*
- The player with the greater fraction takes both cards
- Repeat until all cards have been played

<b>Round 1</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2	<b>Round 2</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2
<b>Round 3</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2	<b>Round 4</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2
<b>Round 5</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2	<b>Round 6</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2
<b>Round 7</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2	<b>Round 8</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2
<b>Round 9</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2	<b>Round 10</b>  $\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$ Player 1      Player 2



Names \_\_\_\_\_

Date \_\_\_\_\_

5<sup>th</sup> Grade - RS 3 - 4.NF.2

**Learning Target:** I will compare two fractions with different numerators and different denominators

# Independent Practice: Whose Fraction is Greater?

*(Recording Sheet – Accessibility Option)*

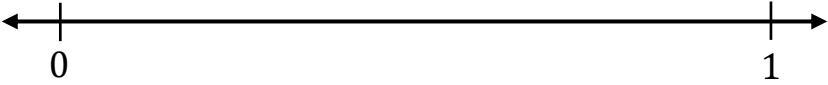
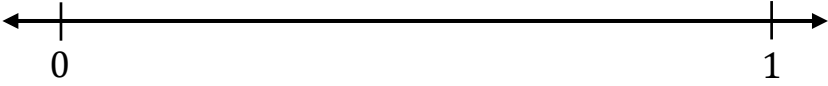
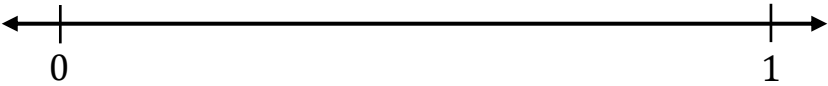

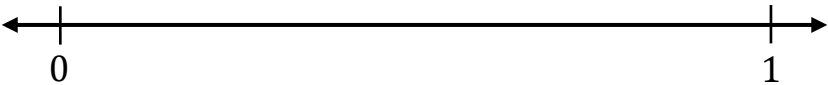
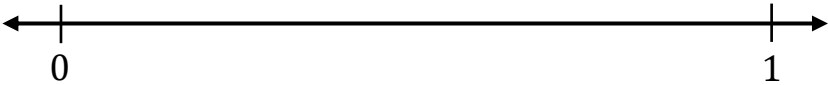
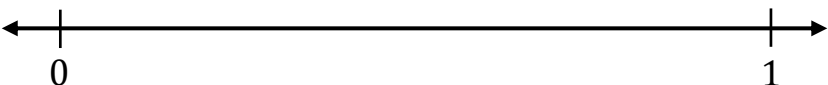
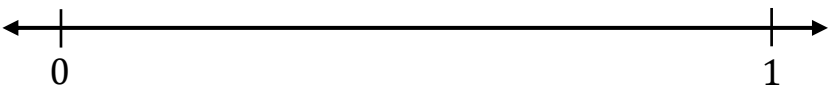
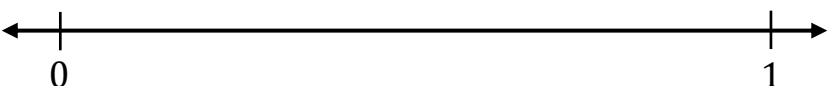
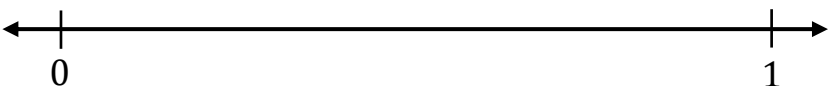
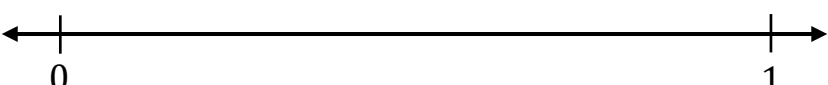
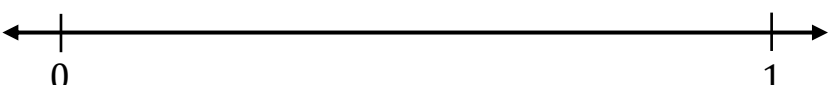
**Directions:**

- Each player turns over their top card. Both players write the fraction on their recording sheet
- Both players write each fraction on their recording sheet and uses common denominators to compare the two fractions and visually checks their work using number lines
- The player with the greater fraction writes the correct inequality sign and says,  
*“My fraction \_\_\_ is greater than \_\_\_, because \_\_\_.”*
- The player with the greater fraction takes both cards
- Repeat until all cards have been played

1.			
_____	_____		
Player 1	Player 2		
2.			
_____	_____		
Player 1	Player 2		
3.			
_____	_____		
Player 1	Player 2		
4.			
_____	_____		
Player 1	Player 2		

# Independent Practice: Whose Fraction is Greater?

(Recording Sheet – Accessibility Option Continued)

5.		
<u>        </u> Player 1	<u>        </u> Player 2	
6.		
<u>        </u> Player 1	<u>        </u> Player 2	
7.		
<u>        </u> Player 1	<u>        </u> Player 2	
8.		
<u>        </u> Player 1	<u>        </u> Player 2	
9.		
<u>        </u> Player 1	<u>        </u> Player 2	
10.		
<u>        </u> Player 1	<u>        </u> Player 2	





# "Whose Greater?" Fraction Cards (2 Sets)

5<sup>th</sup> Grade - Readiness Standard 3 - 4.NF.2

Set A		same as		Set B	
Set A	$\frac{3}{4}$	Set A	$\frac{3}{6}$	Set B	$\frac{3}{4}$
Set A	$\frac{2}{3}$	Set A	$\frac{2}{6}$	Set B	$\frac{2}{3}$
Set A	$\frac{2}{2}$	Set A	$\frac{3}{8}$	Set B	$\frac{2}{2}$
Set A	$\frac{1}{4}$	Set A	$\frac{1}{2}$	Set B	$\frac{1}{2}$
Set A	$\frac{2}{4}$	Set A	$\frac{1}{3}$	Set B	$\frac{2}{4}$
Set A	$\frac{5}{8}$	Set A	$\frac{5}{6}$	Set B	$\frac{5}{8}$
Set A	<	Set A	>	Set B	=
Set A	Less Than	Set A	Greater Than	Set B	Less Than
Set A		Set A	Equal to	Set B	Greater Than
Set A		Set A		Set B	Equal to



# Questions for Solving Word Problems

$Q_1$

*What is the problem about?*

$Q_2$

*What do I need to find?*

$Q_3$

*What do I know?*

$Q_4$

*What can I try?*

$Q_5$

*Does my answer make sense?*



# Steps for Solving Word Problems

Q<sub>1</sub>. *What is the problem about?*

Q<sub>2</sub>. *What do I need to find?*

Q<sub>3</sub>. *What do I know?*

Q<sub>4</sub>. *What can I try?*

Q<sub>5</sub>. *Does my answer make sense?*