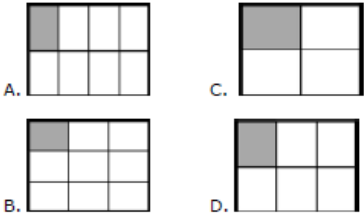
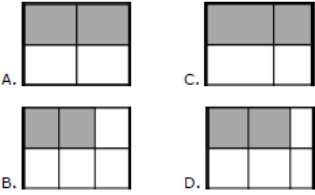
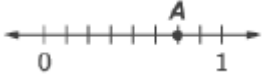
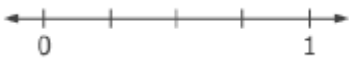

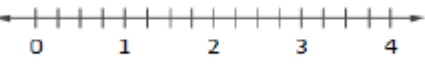
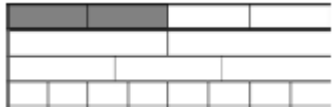
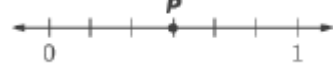
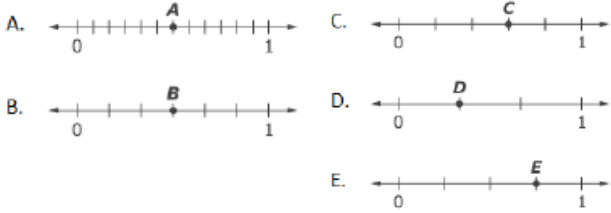


SBACC Grade 3 Analysis of Questions for Claim 1 Domain of Numbers and Operations - Fractions

Standard DOK Level	Evidence	Question
DOK Level 1 3.NF.1	represents a fraction $1/b$ as 1 part of a whole that is partitioned into b equal parts, and a fraction a/b as the quantity formed by a parts of size $1/b$ using a model. For this evidence statement, a/b may be greater than, less than, or equal to 1.	<p>Which model shows $1/8$ of the whole figure shaded?</p>  <p>Which model shows $2/6$ of the whole figure shaded?</p> 
DOK Level 2 3.NF.2	identifies and represents fractions on a number line using the interval 0–1 as the whole, with or without partitioning.	<p>Enter the fraction located at point A on the number line.</p>  <p>Use the Add Point tool to place a point on the number line where $2/4$ should be located.</p>  <p>Drag each fraction to the number line, as close to the exact location as possible. $3/8$ $1/8$ $7/8$</p>  <p>Place each fraction on the number line, as close to its exact location as possible. $2/2$ $1/4$ $4/1$ $2/4$</p> 
DOK Level 1 3.NF.2	identifies two fractions as equal if they are the same size or at the same point on a number line	<p>Use the fraction strip model shown to help you with this problem.</p>  <p>Enter a fraction equal to $2/4$ that has a different denominator.</p>
DOK Level 1 3.NF.2		<p>Use this number line to answer the question that follows.</p>  <p>Choose all the number lines that show a fraction equal to the fraction shown by point P.</p> 

SBACC Grade 3 Analysis of Questions for Claim 1 Domain of Numbers and Operations - Fractions

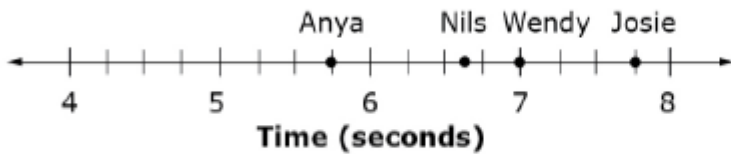
<p>DOK Level 1 3.NF.3</p>	<p>Generates simple equivalent fractions using visual fraction models.</p>	<p>Use this model to solve the problem.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> </tr> <tr> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> <td style="width: 25px; height: 25px;"></td> </tr> </table> <p>Click parts of the model to shade $\frac{2}{4}$ of the whole model.</p>												
<p>DOK Level 1 3.NF.3</p>	<p>Expresses whole numbers as fractions and recognized fractions equal to whole numbers.</p>	<p>Use the number line to help you complete the equation.</p> <div style="text-align: center;"> </div> <p>$1 = \frac{\square}{4}$</p>												
<p>DOK Level 1 3.NF.3</p>	<p>Expresses whole numbers as fractions and recognized fractions equal to whole numbers.</p>	<p>Use the number line to help you complete the equation.</p> <div style="text-align: center;"> </div> <p>$1 = \frac{\square}{4}$</p> <p>What numerator goes in the box (\square) to make the equation true?</p>												
<p>DOK Level 1 3.NF.3</p>	<p>Expresses whole numbers as fractions and recognized fractions equal to whole numbers.</p>	<p>What denominator goes in the box () to make the equation true?</p> <p>$2 = \frac{2}{\square}$</p> <p>Or could be</p> <p>What numerator goes in the box (\square) to make the equation true?</p> <p>$\frac{\square}{2} = 1$</p> <p>Or could be</p> <p>What numerator goes in the box (\square) to make the equation true?</p> <p>$\frac{\square}{2} = 1$</p>												
<p>DOK Level 2 3.NF.3</p>	<p>Compares two fractions with the same numerator or the same denominator using the symbols $<$, $=$, or $>$.</p>	<p>Select the symbol ($<$, $>$, or $=$) that correctly compares each pair of numbers.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>$<$</th> <th>$>$</th> <th>$=$</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">$\frac{5}{8} \square \frac{5}{6}$</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">$\frac{3}{6} \square \frac{3}{8}$</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Which number goes in the box to make the comparison true?</p> <p>$\frac{5}{8} > \square$</p> <p>A. 3 B. 5 C. 7 D. 9</p>		$<$	$>$	$=$	$\frac{5}{8} \square \frac{5}{6}$				$\frac{3}{6} \square \frac{3}{8}$			
	$<$	$>$	$=$											
$\frac{5}{8} \square \frac{5}{6}$														
$\frac{3}{6} \square \frac{3}{8}$														

SBACC Grade 3 Analysis of Questions for Claim 1 Domain of Numbers and Operations - Fractions

DOK Level 2 3.NF.3	Decide whether each comparison is true or false. Click True or False for each comparison.									
	<table border="1"> <thead> <tr> <th></th> <th>True</th> <th>False</th> </tr> </thead> <tbody> <tr> <td>$\frac{3}{4} < \frac{1}{4}$</td> <td></td> <td></td> </tr> <tr> <td>$\frac{2}{4} < \frac{2}{3}$</td> <td></td> <td></td> </tr> </tbody> </table>		True	False	$\frac{3}{4} < \frac{1}{4}$			$\frac{2}{4} < \frac{2}{3}$		
	True	False								
$\frac{3}{4} < \frac{1}{4}$										
$\frac{2}{4} < \frac{2}{3}$										

Claim 2: (Primary emphasis on operations of numbers and measurement and data.)

Three friends ran a race. The points on the number line represent the race times, in seconds, for each friend.



Who had the shortest time?

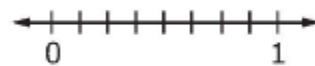
- A. Anya
- B. Nils
- C. Wendy
- D. Josie

Claim 3: (Primary emphasis on operations of numbers , fractions, and measurement and data.)

Robert said, "When comparing two fractions with a numerator of 1, the fraction with the bigger denominator is always greater."

Part A

Drag each fraction to the correct location on the number line.



$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$

Part B

Is Robert's statement true? Click Yes or No.

Is Robert's statement true?

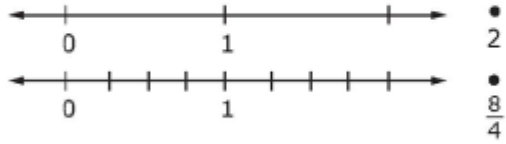
Click Yes or No.

SBACC Grade 3 Analysis of Questions for Claim 2-4 Domain of Numbers and Operations - Fractions

Compare $\frac{8}{4}$ and 2.

Part A

Plot each number on a number line.



Part B

$\frac{8}{4}$ [drop-down choices: <, =, >] 2

Part A

Which comparison between $\frac{1}{5}$ and $\frac{1}{8}$ is correct?

- A. $\frac{1}{5} < \frac{1}{8}$
- B. $\frac{1}{5} > \frac{1}{8}$
- C. $\frac{1}{5} = \frac{1}{8}$

Part B

Choose a picture that supports your answer in Part A.

- D.

Two rows of 8 boxes each. The first row has 1 shaded box. The second row has 1 shaded box.
- E.

Two rows of 8 boxes each. The first row has 8 shaded boxes. The second row has 5 shaded boxes.
- F.

Two rows of 8 boxes each. The first row has 1 shaded box. The second row has 1 shaded box.