## Fraction Number Sense Assessment

Name: $\qquad$ Date: $\qquad$

| Subitizing/Spatial Relationships |  | /9 |
| :--- | :---: | :---: |
| Counting/Cardinality |  | $/ 10$ |
| One/Two More/Less |  | $/ 12$ |
| Benchmarks |  | $/ 9$ |
| Part-Part- Whole | Total | $/ 8$ |
|  |  |  |

## Subitizing/Spatial Relation score

$\qquad$ out of 9

Observations
3.NF. 1 1. "Draw me a picture of 3/4."

- Draws $3 / 4$ by fairly accurately partitioning a whole. (2)
- Draws $3 / 4$ but does not draw it somewhat equally OR draws $3 / 4$ as 4 items with 3 shaded in(1)
- Does not draw $3 / 4(0)$
3.NF. 1

2. "Tell me what fraction of the picture is gray." (Display $2 / 6$ subitizing card)

- Says correct amount within 3 sec without counting (2)
- Counts each partition to determine amount shaded (1)
- Does not give the correct number (0)
3.NF.3d 3. Show $1 / 2$ and $2 / 4$ subitizing cards. "Tell me if one of the pictures
4.NF. 2 has more, less, or if they are equal."
- Instantly tells the cards have the same amount. (2)
- Determines amount on each card, then tells they are equal.(1)
- Does not know.(0)
3.NF.3d 4. "I am going to flash two pictures." Show $1 / 3$ for a few seconds,
4.NF. 2 remove it from view, show the $1 / 2$ and ask, "What is the same/different from the first card?" - if cannot tell then show both pictures at the same time.(Prompt to tell about size of pieces if needed)
- Can describe what is different when both cards are not in front of them(3)
- Can describe what is similar \& different with cards in front. (2)
- Focuses on the number of pieces ("This card has 3, this card has 2.") Prompt them to focus on the size of the pieces to see if they can get to level 2 (1)
- Doesn't know what is the same or different.(0)

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## Counting/Cardinality score____ out of 10

| 3.NF. 1 <br> 4.NF.3a | 1. "Start counting forwards from $1 / 4$." Stop at $10 / 4$ or $22 / 4$. "Now count back from 12/3." Stop at 0/3. <br> - Both Correct \& Fluent(2) | $\begin{aligned} & 1 / 4,2 / 4,3 / 4,4 / 4 \text { (or } 1 \text { ), } \\ & 5 / 4,6 / 4,7 / 4,8 / 4 \text { (or } 2 \text { ), } \\ & 9 / 4,10 / 4 \end{aligned}$ |
| :---: | :---: | :---: |
|  | - Any Delayed yet All Correct or only one correct(1) <br> - Any Incorrect(0) | $\begin{aligned} & 12 / 3,11 / 3, / 10 / 3,9 / 3 \\ & 8 / 3,7 / 3,6 / 3,5 / 3,4 / 3 \\ & 3 / 3,2 / 3,1 / 3,0 / 3 \end{aligned}$ |
| 3.NF. 1 <br> 4.NF.3a | 2. "Start at $\mathbf{3 / 8}$ and count up by $\mathbf{2 / 8}$ 's." (Stop student at $15 / 8$ ) <br> - Correct \& Fluent(2) <br> - Any Delayed yet All Correct(1) <br> - Any Incorrect(0) | $\begin{aligned} & 3 / 8,5 / 8,7 / 8,9 / 8,11 / 8 \\ & 13 / 8,15 / 8 \end{aligned}$ |
| $\begin{aligned} & \text { 3.NF. } 1 \\ & \text { 4.NF.3a } \end{aligned}$ | 3. Show card with $1 / 4$ shaded on three rectangles. "Write down how much is showing." Correct writes 3/4(2) Can say amount but cannot write it correctly.(1) Incorrect(0) |  |
| 4.NF.3a | 4. Show image of $5 / 6$ with $3 / 6$ covered and $2 / 6$ showing. Say, "I have $5 / 6$ how much is covered?" <br> - Gives answer of $3 / 6$ instantly. (2) <br> - Counts one by one to figure out.(1) <br> - Incorrect answer (0) |  |
| 4.NF.3d <br> 5.NF. 3 <br> 5.NF. 6 | 5. Display a group of 3 pies and 5 people. Say, "Do we have enough pie so that each person can have 1/4 of a pie? Explain your thinking." (If needed they can work out on paper. If correct, ask, "Is there enough for each person to get 3/4 of a pie?") <br> - Correctly explains both. (2) <br> - Can explain easier problem but not harder or needs paper/pencil to solve.) (1) <br> - Incorrect answer (0) |  |

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## One/Two More/Less score___ out of 12 Observations

| 3.NF. 1 <br> 4.NF.3a | 1. Show $2 / 5$ subitizing card, ask, "What amount is shaded?" Then say "What amount would be shaded if I shaded in one more section?" If correct, do the same with $7 / 10$. Next show $1 / 3$ and ask, "What amount would be shaded if I shaded in two more sections?"). If correct, do the same with $7 / 8$. <br> - All four correct. (3) <br> - At least two correct (2) <br> - Gives correct amount for one.(1) <br> - Incorrect answer (0) | $\begin{gathered} 1 \mathrm{M}: 2 / 5 \\ 3 / 5 \\ \\ 2 \mathrm{M}: 1 / 3 \\ 3 / 3 \end{gathered}$ | $\begin{aligned} & 7 / 10 \\ & 8 / 10 \\ & \\ & \\ & 7 / 8 \\ & 9 / 8 \text { or } 11 / 8 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| 3.NF. 1 <br> 4.NF.3a | 2. Show $3 / 6$ subitizing card, ask, "What amount is shaded?" then say "What amount would be shaded if $I$ shaded in one less section?" If correct, do the same with 4/3. Next show $5 / 10$ and ask, "What amount would be shaded if I shaded in two less sections?" If correct, do the same with 5/4. <br> - All four correct (3) <br> - At least two correct (2) <br> - Gives correct amount for one (1) <br> - Incorrect answer (0) | $\begin{array}{r} 1 \mathrm{~L}: 3 / 6 \\ 2 / 6 \\ \\ \\ 2 \mathrm{~L}: \\ \\ 3 / 10 \\ 3 / 10 \end{array}$ | 4/3 <br> $3 / 3$ or 1 <br> 5/4 <br> 3/4 |
| 3.NF. 1 <br> 4.NF.3a | 3. Show $2 / 4$ fraction card. Ask, "what number is one-fourth more than this number?" (lf correct, show 6/8-ask, "What is one-eighth more?"). Next show $3 / 5$ and ask, "What number is two-fifths more?" (lf correct, show $5 / \%$ and ask "What is 2/6 more?"). <br> - All four correct (3) <br> - At least two correct (2) <br> - Gives correct amount for one(1) <br> - Incorrect answer (0) |  | $\begin{aligned} & 6 / 8 \\ & 7 / 8 \\ & \\ & 5 / 6 \\ & 7 / 6 \text { or } 11 / 6 \end{aligned}$ |
| 3.NF. 1 <br> 4.NF.3a | 4. Show $2 / 3$ fraction card. Ask, "What number is one-third less than this number?" (If correct, show 5/7-ask, "What is oneseventh less?"). Next show $4 / 5$ and ask, "What number is two-fifths less?" (If correct, show 9/6-ask, "What number is 2/6 less?") <br> - All four correct (3) <br> - At least two correct (2) <br> - Gives correct amount for one (1) <br> - Incorrect answer (0) | $\begin{gathered} 1 \mathrm{~L}: \begin{array}{c} 2 / 3 \\ \\ 1 / 3 \end{array} \\ 2 \mathrm{M}: \begin{array}{c} 4 / 5 \\ 2 / 5 \end{array} \end{gathered}$ | $\begin{gathered} \text { 5/7 } \\ 4 / 7 \\ \\ 9 / 6 \\ 7 / 6 \end{gathered}$ |

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Benchmark 5 \& 10 score
out of 9
Observations

| $\begin{aligned} & \text { 3.NF. } 2 \\ & \text { 4.NF. } 2 \end{aligned}$ | 1. Give a number line that has $0 \& 1$ on each end. "Show me where 7/16 woud go on this number line. Explain your thinking." <br> (If cannot do 7/16 try easier 2/3) <br> - Uses halfway benchmark to determine where $7 / 16$ goes (2) <br> - Gets in the general area of where $7 / 16$ should be or can do easier fraction)(1) <br> - Does not give accurate response (0), |
| :---: | :---: |
| 4.NF. 2 | 2. Give a number that is less than a benchmark number \& ask how far to the nearest benchmark. "If I have $4 / 5$, how much more do I need to get to 1 ?" <br> - Just know you need to add $1 / 5$ more(2) <br> - Draws visual to help.(1) <br> - Cannot do the task (0) |
| 4.NF. 2 | 3. Give a number that is more than a benchmark number \& ask how much needs to be taken away to get to the nearest benchmark. "If I have $3 / 4$, how much do I need to take away to get to 1/2 ?" <br> - Just knows you need to take away $1 / 4$ (2) <br> - Draws visual to help.(1) <br> - Cannot do the task (0) |
| $\begin{aligned} & \text { 3.NF.3d } \\ & \text { 4.NF. } 2 \\ & \text { 5.NF. } 5 \end{aligned}$ | 4. Say, "If I have $4 / 5$ and $8 / 9$, which one is closer to 1 ?" <br> - Knows which one is closer (Might say " $1 / 9$ is a smaller piece so it's closer to 1 or whole.") (3) <br> - Draws a visual to help.(2) <br> - Says they are both " 1 away" so they are equal distance to benchmark.) or incorrectly uses the relationship (for example, " $1 / 9$ is a smaller pieces and fourths are bigger so $3 / 4$ is closer to $1^{\prime \prime}$ ) (1) <br> - Cannot do the task(0) |

Part/Part/Whole score $\qquad$ out of 8





13




23




25


27


29



31

