Fraction Number Sense Assessment

| Name: | Date: | |
|----------------------------------|-------|-----|
| C. hitting/Contint Polationships | | /0 |
| Subitizing/Spatial Relationships | | /9 |
| Counting/Cardinality | | /10 |
| One/Two More/Less | | /12 |
| Benchmarks | | /9 |
| Part-Part- Whole | | /8 |
| | Total | /48 |

| | Subitizing/Spatial Relation score | out of 9 Observations |
|-------------------|--|---|
| 3.NF.1 | "Draw me a picture of 3/4." Draws ¾ by fairly accurately partitioning a whole. Draws ¾ but does not draw it somewhat equally 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." subitizing card) Says correct amount within 3 sec without counting Counts each partition to determine amount shade Does not give the correct number (0) | g (2) |
| 3.NF.3d 4.NF.2 | 3. Show ½ and 2/4 subitizing cards. "Tell me if one 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 and Does not know.(0) |) |
| 3.NF.3d 4.NF.2 | 4. "I am going to flash two pictures." Show 1/3 for remove it from view, show the 1/2 and ask, same/different from the first card?" - if cannot both pictures at the same time. (Prompt to tell about if needed) Can describe what is different when both cards a them(3) Can describe what is similar & different with cards Focuses on the number of pieces ("This card has 3) Prompt them to focus on the size of the pieces to sto level 2 (1) Doesn't know what is the same or different.(0) | "What is the of tell then show out size of pieces are not in front of in front. (2) this card has 2.") |

Counting/Cardinality score ____ out of 10 Observations

| 3.NF.1 4.NF.3a | 1. | "Start counting forwards from 1/4." Stop at 10/4 or 2 2/4. "Now count back from 12/3." Stop at 0/3. | 1/4, 2/4, 3/4, 4/4 (or 1), 5/4, 6/4, 7/4, 8/4 (or 2), |
|-------------------|----|---|---|
| | | Both Correct & Fluent(2) | 9/4, 10/4 |
| | | Any Delayed yet All Correct or only one correct(1)Any Incorrect(0) | 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 |
| 3.NF.1 4.NF.3a | 2. | "Start at 3/8 and count up by 2/8's." (Stop student at 15/8) Correct & Fluent(2) Any Delayed yet All Correct(1) Any Incorrect(0) | 3/8, 5/8, 7/8, 9/8, 11/8, 13/8, 15/8, |
| 3.NF.1 4.NF.3a | 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?" Gives answer of 3/6 instantly. (2) Counts one by one to figure out.(1) Incorrect answer (0) | |
| 4.NF.3d 5.NF.3 | 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 | |
| 5.NF.6 | | | |
| | | 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?") | |
| | | o Correctly explains both. (2) | |
| | | Can explain easier problem but not harder or needs paper/pencil to solve.) (1) | |
| | | Incorrect answer (0) | |

This resource was developed using materials from the Build Math Minds site and online Number Sense course offered by Christina Tondevold on this platform. For more information regarding these materials, the Build Math Minds Platform, and Christina Tondevold, please visit buildmathminds.com or therecoveringtraditionalist.com.

One/Two More/Less score____ out of 12 Observations

| | Offer Two World Eess score Out of 12 | Observations |
|-------------------|--|--|
| 3.NF.1 4.NF.3a | 1. Show 2/5 subitizing card, ask, "What amount is shaded?" Their 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 | n 1M: 2/5 7/10 3/5 8/10 |
| | shaded in two more sections?"). If correct, do the same with %. All four correct. (3) At least two correct (2) Gives correct amount for one.(1) Incorrect answer (0) | 2M: 1/3 |
| 3.NF.1 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. | |
| | All four correct (3) At least two correct (2) Gives correct amount for one (1) Incorrect answer (0) | 2L: 5/10 5/4 3/10 3/4 |
| 3.NF.1 4.NF.3a | 3. Show 2/4 fraction card. Ask, "what number is one-fourth more than this number?" (If correct, show 6/8 - ask, "What is one-eighth more?"). Next show 3/5 and ask, "What number is two-fifths more?" (If correct, show % and ask "What is 2/6) | 1M: 2/4 6/8 s ³ ⁄ ₄ 7/8 |
| | more?"). All four correct (3) At least two correct (2) Gives correct amount for one(1) Incorrect answer (0) | 2M: 3/5 5/6 5/5 7/6 or 1 1/6 |
| 3.NF.1 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 one-seventh 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?") All four correct (3) At least two correct (2) Gives correct amount for one (1) Incorrect answer (0) | 1/3 4/7 |

Benchmark 5 & 10 score ____ out of 9

Observations

| 2 ME 2 | 1. Give a group bout to a thought and bound of the control of the | |
|---------|---|--|
| 3.NF.2 | 1. Give a number line that has 0 & 1 on each end. "Show me where | |
| 4.NF.2 | 7/16 woud go on this number line. Explain your thinking." | |
| | (If cannot do 7/16 try easier 2/3) | |
| | Uses halfway benchmark to determine where 7/16 goes (2) | |
| | Gets in the general area of where 7/16 should be or can do easier | |
| | fraction)(1) | |
| | 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?" | |
| | O Just know you need to add ⅓ more(2) | |
| | o Draws visual to help.(1) | |
| | o 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 ?" | |
| | Just knows you need to take away ¼ (2) | |
| | o Draws visual to help.(1) | |
| | o Cannot do the task (0) | |
| 3.NF.3d | 4. Say, "If I have 4/5 and 8/9, which one is closer to 1?" | |
| 4.NF.2 | o Knows which one is closer (Might say "1/9 is a smaller piece so it's | |
| 5.NF.5 | closer to 1 or whole.") (3) | |
| | o Draws a visual to help.(2) | |
| | 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 ¾ is closer to 1") (1) | |
| | Cannot do the task(0) | |

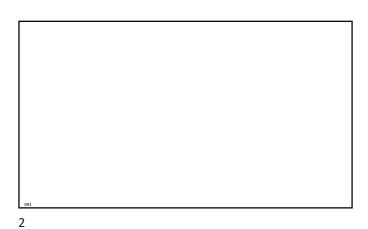
Part/Part/Whole score____ out of 8

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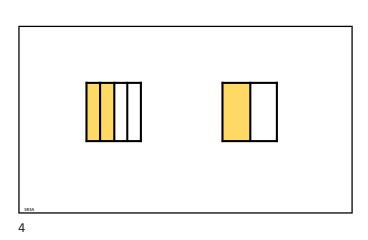
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|------------------------------|--|--|
| 3.NF.1 4.NF.3a 4.NF.3b | 1. Show the fraction 3/4. "What are some different ways to make this fraction. Using any operation, and numbers or fractions, show me as many ways as you can think of." | |
| 5.NF.1,4 | Gives ways to make 3/4 that does not use only fourths (like ½+¼).(3) Gives at least 3 ways to make ¾. (2) Gives 1-2 ways to make ¾. (1) Can't show a way to make ¾.(0) | |
| 4.NF.3a, 4.NF.3b | | |
| 4.NF.3a, | 3. "This card has a total of 4/6 on it. The other two blue | |
| 4.NF.3b | parts combine to make 4/6. How much is covered by the | |
| 5.NF.1 | post-it?" (If correct, repeat with unlike denominator card) Can do this with fraction parts with unlike denominators.(3) Can tell within 3 seconds how much is hiding (2) Counts or needs paper & pencil to determine amount(1) Does not give an accurate answer. (Try a smaller amount & see if they can determine how much is covered. If they can 1 pt) (0) | |

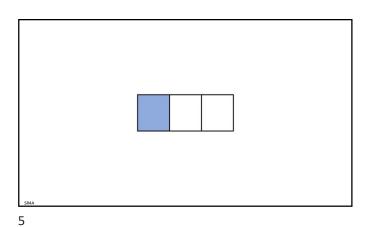
3rd-5th Grade Number Sense Fractions Assessment

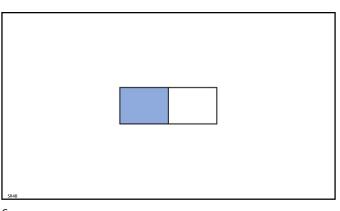
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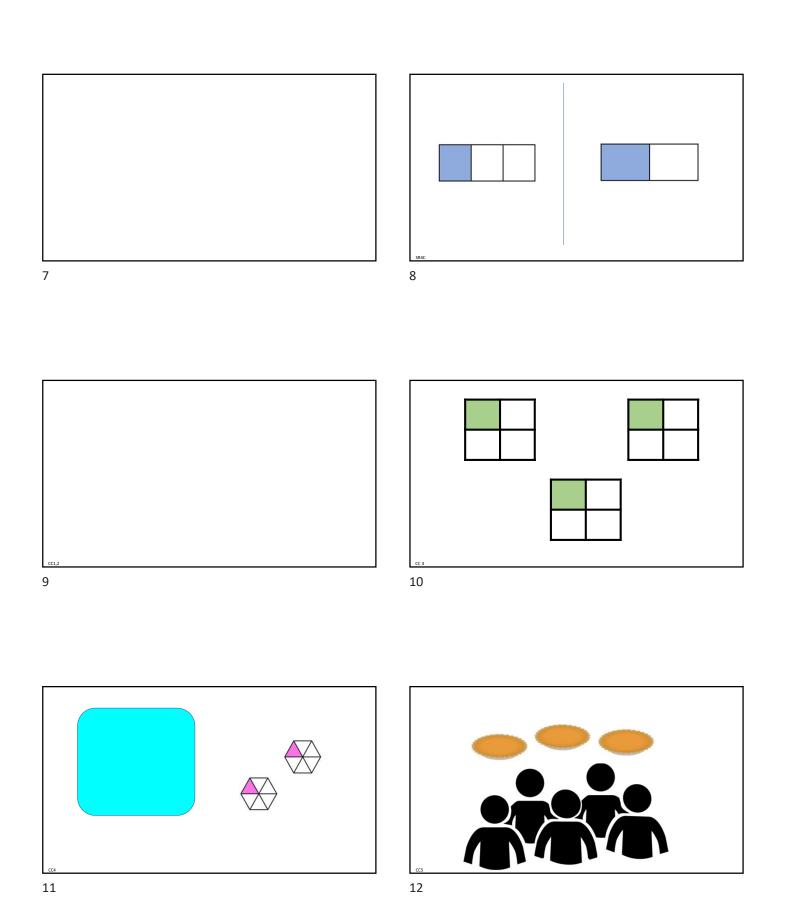
SR2A 3







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