9. Fraction Pairs Record Sheet

Name:
School:
Year Level:

Show the student each fraction pair card, one at a time.
Please point to the larger fraction or are they the same?…. How did you decide?
Don't allow use of paper and pencil.
Only continue with f-h if complete success in a-e

a. $\frac{3}{8}$ $\frac{7}{8}$

- **d the same and compares n**
- Benchmarking to ½ and/or 1
- Residual thinking (1/8 < 5/8)
- Other (satisfactory)

- Compares numerator only (7>3)
- Gap thinking (1 < 5)
- Smaller numbers mean bigger fractions
- Other (unsatisfactory)

b. $\frac{2}{4}$ $\frac{4}{8}$

- **Equivalent ("the same")**
- Other (satisfactory)

- "Higher" or "larger" numbers
- Gap thinking (2 < 4)
- Other (unsatisfactory)

c. $\frac{1}{2}$ $\frac{5}{8}$

- **Benchmarks to one half (5/8 > 1/2)**
- Converts to common denominator (5/8 > 4/8)
- Other (satisfactory)

- "Higher" or "larger" numbers
- Gap thinking (1 < 3)
- Other (unsatisfactory)

d. $\frac{2}{4}$ $\frac{4}{2}$

- **Equates to ½ and 2**
- Equates to a ½ and more than 1
- Converts to common denominator
- (8/4 > 2/4 or 4/2 > 1/2 etc)
- Other (satisfactory)

- "Both the same"
- Compares numerators or denominators (4 > 2)
- Improper fraction
- Other (unsatisfactory)

e. $\frac{4}{7}$ $\frac{4}{5}$

- **n the same and compares d**
- Converts to common denominator (28/35 >20/35)
- Benchmarks to ½ and 1
- Residual thinking (1/5 < 3/7)
- Other (satisfactory)

- More area (sometimes related to an image)
- Compares denominator only (7>5)
- Gap thinking (1< 3)
- Other (unsatisfactory)

f. $\frac{3}{7}$ $\frac{5}{8}$

- **Benchmarks to one half (3/7 < 1/2 & 5/8 > 1/2)**
- Converts to common denominator (35/56 > 24/56)
- Other (satisfactory)

- Residual thinking (3/8 < 4/7)
- "Higher" or "larger" numbers
- Gap thinking (3 < 4)
- Other (unsatisfactory)

g. $\frac{5}{6}$ $\frac{7}{8}$

- **Residual thinking (1/6 > 1/8)**
- Converts to common denominator (21/24 >20/24 or 42/48 > 40/48)
- Other (satisfactory)

- "Higher" or "larger" numbers
- Gap thinking (both have a gap of one)
- Other (unsatisfactory)

h. $\frac{3}{4}$ $\frac{7}{9}$

- **Residual thinking with equivalence (2/8 > 2/9)**
- Residual thinking (1/4 > 2/9) with some other proof
- Converts to common denominator (28/36 > 27/36)
- Other (satisfactory)

- "Higher" or "larger" numbers
- Gap thinking (1 < 2)
- Other (unsatisfactory)