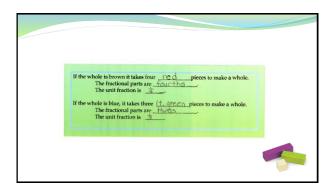


| ving From Concret | e to Symbo | lic Using the | e Rods | |
|---|------------|---------------|----------|---|
| | | | | |
| If the whole is brown it tak The fractional par The unit fraction | ts are | | a whole. | |
| If the whole is blue, it takes The fractional par The unit fraction | ts are | | ı whole. | |
| | | | | W |



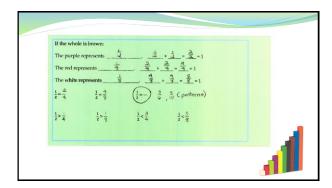
• Showing equivalence

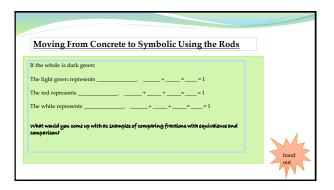
Use the BROWN rod for the whole.

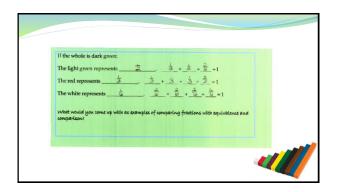
• Comparing and ordering

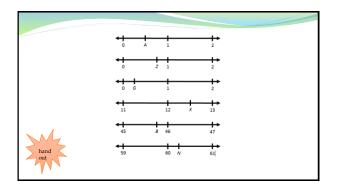
Use the DARK GREEN rod for the whole.

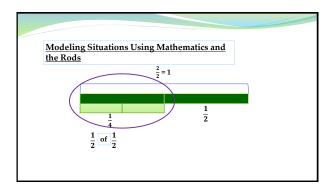
| Moving From Co | oncrete to Symb | olic Using the Rod | <u>s</u> | |
|----------------------------------|-----------------|--------------------|----------|------|
| If the whole is brown: | | | | |
| The purple represents | +_ | =_=1 | | |
| The red represents | + | _==1 | | |
| The white represents | + | == 1 | | |
| $\frac{1}{2} = \frac{1}{2} = -$ | 1/2 = | | | |
| | | | | 4 |
| $\frac{1}{2}> \frac{1}{2}>-$ | 1/2 < | 1/2 < | | M |
| | | | | hand |

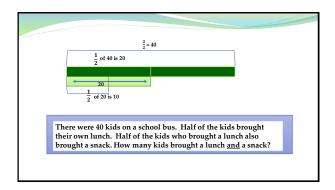


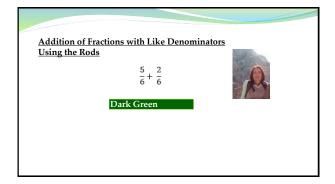












| Addition Using the | of Fractions with L Rods | ike Denominators | |
|-------------------------|-----------------------------|------------------------------------|--|
| Independent Practice | $\frac{4}{3} + \frac{2}{3}$ | $\frac{3}{5} + \frac{4}{5}$ Orange | |
| | | <i>a</i> - | |
| | | | |

| Subtraction Using the R | of Fractions with Like Denominators | |
|----------------------------|-------------------------------------|--|
| <u>g</u> | $\frac{5}{4} - \frac{1}{4}$ | |
| | Brown | |
| | | |
| | | |

| Subtraction Using the R | of Fractions with Li | ke Denominators | |
|----------------------------|-----------------------------|--|--|
| Independent Practice | $\frac{4}{8} - \frac{1}{8}$ | $\frac{5}{6} - \frac{3}{6}$ Dark Green | |
| | | | |

| A virtual lesson us | ing the rods |
|---|---|
| ANNENBERG LEARNER Teacher resources and groffessional development across the curriculum | |
| SESSION 8 | Rational Numbers and Proportional Reasoning |
| | IN THIS SESSION |
| | Part A: Interpreting Fractions, Units, and Unitsing |
| | Part B: Fractions With Cuisenaire Rods |
| | Part C: <u>Absolute and Relative Reasoning</u> Homework |
| | Homework |
| | |