Add, Subtract, and Multiply Fractions

Let's practice solving problems involving fractions.

Number Talk: Fluency and Fractions

Find the value of each expression mentally.

- $5 \times \frac{10}{5}$

- $9 \times \frac{6}{3}$

- $8 \times \frac{11}{4}$

- $6 \times \frac{12}{10}$

Let's Make Head Wraps!

Jada and Lin see a picture of head wraps made of African wax-print fabric. They decide to make their own head wraps.

1. Jada stitches together 5 pieces of fabric. Each piece has a length of $\frac{2}{6}$ yard. Write an equation to show the total length of fabric Jada uses for her head wrap.

2. Lin stitches together 3 pieces of fabric. Each piece has a length of $\frac{2}{3}$ yard. Write an equation to show the total length of fabric Lin uses for her head wrap.

3. Who uses more fabric? Explain or show your reasoning.

Make Two Yards of Fabric

Jada's and Lin's moms teach the fourth-grade class how to combine and use fabric pieces for head wraps. Here is the length of each piece of fabric.

$\frac{2}{6}$ yard	$\frac{2}{6}$ yard	$\frac{2}{6}$ yard	$\frac{11}{10}$ yard
$1\frac{2}{5}$ yards	$\frac{9}{10}$ yard	$\frac{2}{6}$ yard	$\frac{6}{12}$ yard
$\frac{3}{6}$ yard	$\frac{2}{6}$ yard	$\frac{2}{6}$ yard	$\frac{12}{12}$ yard
$\frac{2}{6}$ yard	$\frac{3}{5}$ yard	$\frac{2}{6}$ yard	

Find as many different combinations of fabric that would have a length of 2 yards. Each piece of fabric can be used only one time. Write an equation for each combination.

Play by the Rules

1. Here are 4 fractions: $\frac{15}{12}$ $\frac{7}{12}$ $\frac{21}{12}$ $\frac{18}{12}$

    a. What is the sum of all the fractions?

    b. Select 2 of the fractions with a difference that is less than $\frac{1}{3}$. Explain or show your reasoning.

    c. Select 2 of the fractions with a sum greater than 3. Explain or show your reasoning.

2. Here are 4 new fractions: $\frac{5}{12}$ $\frac{8}{12}$ $\frac{3}{12}$ $\frac{2}{12}$

    Use the fractions to make the value 1. Follow these rules.

    ◦ Use addition, subtraction, or both.
    ◦ Use all four fractions.
    ◦ Use each fraction only one time.

3. Use these fractions and the same rules to make the value 1.

    $\frac{15}{10}$ $\frac{13}{100}$ $\frac{53}{100}$ $\frac{9}{10}$