Set 8: Relate Decimals and Fractions

Add. Show your work.

1. $\frac{3}{10} + \frac{9}{100}$
2. $\frac{31}{100} + \frac{4}{10}$
3. $\frac{64}{100} + \frac{8}{10}$

Write each decimal as a fraction with a denominator of 100 for problems 4–6.

4. 0.2 = ...
5. 0.04 = ...
6. 0.56 = ...

Write a decimal equivalent for each fraction or mixed number for problems 7–9.

7. $\frac{7}{10}$ = ...
8. $\frac{8}{100}$ = ...
9. $\frac{11}{100}$ = ...

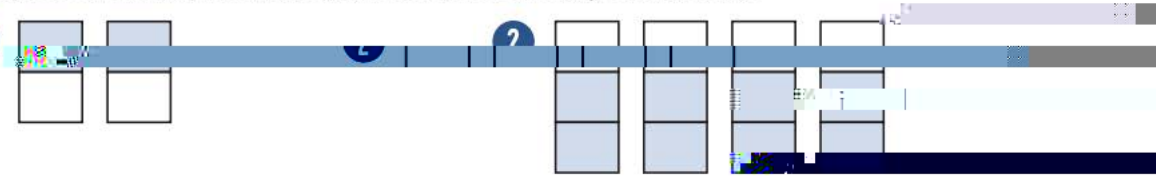
Set 9: Compare Decimals

Write <, >, or = in each circle to compare the decimals.

1. 0.2 ◯ 0.3
2. 0.5 ◯ 0.05
3. 0.25 ◯ 0.52
4. [illegible]
5. [illegible]
6. [illegible]
7. 0.2 ◯ 0.08
8. 1.10 ◯ 1.1
9. 0.72 ◯ 0.3[illegible]

Set 10: Fraction Multiplication

Complete the multiplication equation represented by each model.

1. 

..... × $\frac{1}{2}$ = ... × $\frac{1}{3}$ = $\frac{2}{\square}$

2. 

..... × $\frac{3}{8}$ = ...

Find Equivalent Fractions

Check Understanding

What are two equivalent fractions for $\frac{1}{2}$?

What You Need

- number cube (1–6)
- 12 game markers in one color for Partner A
- 12 game markers in a different color for Partner B
- Game Board

What You Do

1. Take turns. Roll the number cube. Look at the [illegible]
2. Cover that fraction with your game marker on the **Game Board.** If [illegible] fraction is already taken, your turn ends.
3. Then cover all the fractions on the **Game Board** that are equivalent to your fraction.
4. Repeat until all the fractions are covered. The player with the most markers on the **Game Board** wins.
5. Play again.

Toss	Fraction
1	$\frac{1}{2}$
2	$\frac{2}{4}$
3	$\frac{1}{3}$
4	$\frac{1}{4}$
5	$\frac{2}{3}$
6	Your turn ends

Go Further!

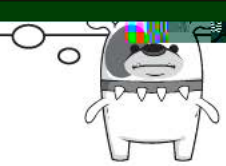
Roll the number cube. Ask your partner to name an equivalent fraction for that toss.

Find Equivalent Fractions

$\frac{1}{4}$	$\frac{3}{4}$	$\frac{4}{12}$	$\frac{1}{3}$
$\frac{4}{6}$	$\frac{6}{8}$	$\frac{1}{2}$	$\frac{5}{10}$
$\frac{2}{8}$	$\frac{2}{3}$	$\frac{8}{12}$	$\frac{2}{4}$

Start with any fraction and multiply or divide the numerator and denominator by the same number to get an equivalent fraction.

$\frac{1 \times 5}{2 \times 5} = \frac{5}{\quad}$



Add and Subtract Mixed Numbers

What You Need

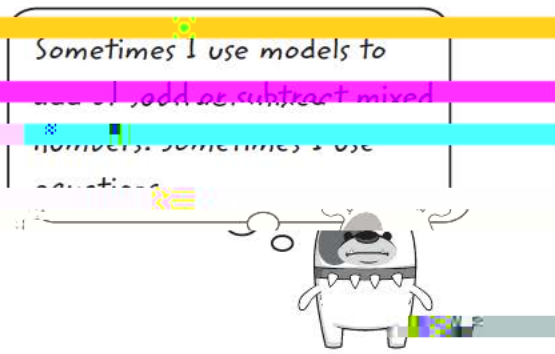
- Recording Sheet

Check Understanding

$2\frac{7}{8} + 1\frac{5}{8}$ _____

What You Do

1. Take a **Recording Sheet**.
2. Choose a method to solve the problem.
3. Have your partner uses a different method to check the answer.
4. Continue until all problems on the **Recording Sheet** have been solved.



Go Further

Write two mixed numbers that have a sum of $4\frac{9}{10}$. Exchange with your partner to check the sum.

Center Activity 4.32 ★★ Recording Sheet

Partner A _____

Partner B _____

Add and Subtract Mixed Numbers

$8\frac{11}{12} - 7\frac{5}{12} =$ _____

$2\frac{3}{5} + 3\frac{4}{5} =$ _____

$4\frac{1}{6} + 8\frac{5}{6} =$ _____

$3\frac{1}{4} - 1\frac{3}{4} =$ _____

Linda makes fruit punch with $2\frac{2}{3}$ cups of orange juice and $1\frac{1}{2}$ cups of fruit juice. How many cups of juice does she use altogether?

_____ cups

Benito walks $1\frac{1}{3}$ miles on a hiking trail. That trail is $3\frac{1}{2}$ miles long. How many more miles does Benito need to walk to reach the end of the trail?

_____ miles