Colin and Coco's Deliberate Practice

Year 5 Unit 11B Answers

Fractions

Contents

This pack of deliberate practice is designed to be used flexibly to secure the manageable steps of this unit.
The table below indicates which activities are linked to which manageable steps.

	Do It	Challenge It	Play It
Subtract proper from mixed same denominator within the whole		1	
Subtract proper from mixed same denominator (across whole)			1
Subtract proper fractions denominator multiples within the whole	1		
Subtract proper fractions from mixed numbers denominator multiples, within the whole	2	2	2
Subtract proper fractions from mixed numbers denominator multiples (across whole)		2	2

Calculate:

Do It 1

$\frac{1}{4} - \frac{1}{8} = \boxed{\frac{1}{8}}$ $\quad \frac{3}{8} - \frac{1}{4} = \boxed{\frac{1}{8}}$ $\quad \frac{4}{15} - \frac{1}{5} = \boxed{\frac{1}{15}}$

$\frac{1}{2} - \frac{1}{8} = \boxed{\frac{3}{8}}$ $\quad \frac{2}{5} - \frac{1}{10} = \boxed{\frac{3}{10}}$ $\quad \frac{2}{3} - \frac{1}{12} = \boxed{\frac{7}{12}}$

$\frac{1}{3} - \frac{1}{6} = \boxed{\frac{1}{6}}$ $\quad \frac{2}{3} - \frac{1}{6} = \boxed{\frac{3}{6}}$ $\quad \frac{2}{3} - \frac{2}{6} - \frac{1}{12} = \boxed{\frac{3}{12}}$

$\frac{7}{8} - \frac{3}{4} = \boxed{\frac{1}{8}}$ $\quad \frac{3}{5} - \frac{3}{10} = \boxed{\frac{3}{10}}$ $\quad \frac{3}{4} - \frac{1}{8} - \frac{1}{2} = \boxed{\frac{1}{8}}$

Challenge It 1

Solve each calculation in several different ways.

$$2\frac{8}{9} - \frac{\boxed{5}}{9} = \boxed{2}\frac{\boxed{3}}{\boxed{9}}$$

$$4\frac{\boxed{7}}{8} - \frac{\boxed{1}}{\boxed{8}} = \boxed{4}\frac{\boxed{6}}{8}$$

Possible solution

Now solve them together using the digits 1 - 9 once each.

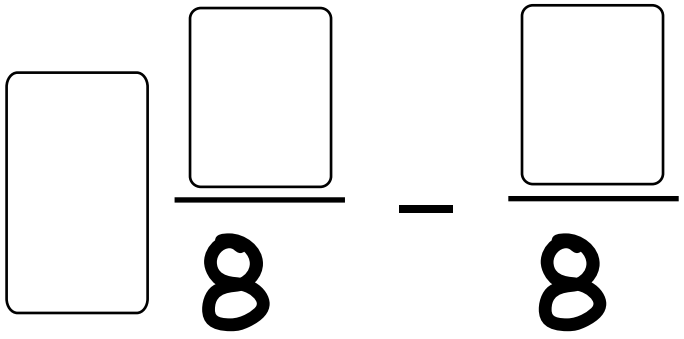
Subtracting Fractions Game

Play It 1

You need:
1 - 6 Dice

To play:
Each player rolls the dice to get 3 numbers.
Place the numbers on your template to make a proper fraction and a mixed number.
Calculate the difference between the mixed number and the fraction.
The player with the smaller difference scores a point.

To win:
The winner is the first player to score 5 points.



Do It 2

Calculate, writing your answers as mixed numbers:

$1\frac{1}{2} - \frac{1}{6} =$ $1\frac{2}{6}$

$1\frac{1}{3} - \frac{1}{9} =$ $1\frac{2}{9}$

$2\frac{1}{2} - \frac{3}{10} =$ $2\frac{2}{10}$

$1\frac{3}{8} - \frac{1}{4} =$ $1\frac{1}{8}$

$2\frac{7}{8} - \frac{1}{4} =$ $2\frac{5}{8}$

$1\frac{4}{5} - \frac{4}{15} =$ $1\frac{8}{15}$

$2\frac{1}{5} - \frac{1}{10} =$ $2\frac{1}{10}$

$3\frac{2}{5} - \frac{3}{10} =$ $3\frac{1}{10}$

$1\frac{2}{3} - \frac{7}{12} =$ $1\frac{1}{12}$

$1\frac{2}{3} - \frac{1}{6} =$ $1\frac{3}{6}$

$2\frac{2}{3} - \frac{1}{9} =$ $2\frac{5}{9}$

$2\frac{3}{4} - \frac{5}{12} =$ $2\frac{4}{12}$

Challenge It 2

Match the calculation to the answer.
Find the missing buddies.

$1\frac{3}{5} - \frac{7}{10}$	$2\frac{5}{10}$
$1\frac{4}{5} - \frac{8}{10}$	$\frac{9}{10}$
$2\frac{4}{5} - \frac{3}{10}$	1
$1\frac{1}{3} - \frac{5}{6}$	$\frac{3}{6}$
$2\frac{5}{6} - \frac{2}{3}$	$1\frac{1}{8}$
$1\frac{8}{9} - \frac{1}{3}$	$2\frac{1}{6}$
$2\frac{7}{9} - \frac{2}{3}$	$1\frac{5}{9}$
$1\frac{3}{4} - \frac{5}{8}$	$1\frac{3}{8}$
$2\frac{1}{8} - \frac{3}{4}$	$2\frac{1}{9}$

Subtracting Fractions Game

Play It 2

You need:
Two sets of 1 - 8 cards

To play:
The cards are shuffled and three cards are dealt to each player.
Player 1 turns over their cards and chooses two to place in their template to make a mixed number and a proper fraction.
Then it is Player 2's turn to choose two of their cards to make a mixed number and a proper fraction.
Both players calculate their differences, convincing each other their answer is correct.
Players score a point if the whole number in their answer is 1
The player with the smaller difference scores a bonus point.

If the cards dealt do not allow the player to make a mixed number and a proper fraction the other player scores a point.

To win:
The winner is the first player to score 10 points.

$$2\frac{\square}{6} - \frac{\square}{12}$$