



# Colin and Coco's Daily Maths Workout

Workout 6.1

**Answers**

Fraction Addition and Subtraction





## Workout A

## Fraction Workout

You may need to work these out on another piece of paper.

$\frac{1}{3} + \frac{1}{4} =$

 $\frac{7}{12}$ 

$\frac{2}{3} + \frac{1}{4} =$

 $\frac{11}{12}$ 

$\frac{2}{3} - \frac{1}{4} =$

 $\frac{5}{12}$ 

$\frac{1}{5} + \frac{1}{4} =$

 $\frac{9}{20}$ 

$\frac{2}{5} + \frac{1}{4} =$

 $\frac{13}{20}$ 

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

 $\frac{3}{20}$ 

$\frac{1}{3} + \frac{1}{5} =$

 $\frac{8}{15}$ 

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

 $\frac{7}{15}$ 

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

 $\frac{1}{15}$ 

$\frac{1}{3} + \frac{1}{2} =$

 $\frac{5}{6}$ 

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

 $\frac{1}{12}$ 

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

 $\frac{7}{20}$ 

## Workout B

## Fraction Workout

You may need to work these out on another piece of paper.

 $3\frac{4}{8}$ 

$= 1\frac{3}{8} + 2\frac{1}{8}$

 $5\frac{7}{20}$ 

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

 $1\frac{7}{12}$ 

$= 2\frac{5}{6} - 1\frac{1}{4}$

 $3\frac{7}{8}$ 

$= 1\frac{1}{8} + 2\frac{3}{4}$

 $4\frac{1}{15}$ 

$= 1\frac{2}{3} + 2\frac{2}{5}$

 $\frac{11}{15}$ 

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

 $3\frac{5}{6}$ 

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

 $1\frac{5}{6}$ 

$= 2\frac{5}{6} - 1\frac{1}{6}$

 $1\frac{5}{6}$ 

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

 $3\frac{19}{20}$ 

$= 1\frac{1}{5} + 2\frac{3}{4}$

 $\frac{4}{5}$ 

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

 $\frac{13}{20}$ 

$= 2\frac{2}{5} - 1\frac{3}{4}$

## Workout C

## Fraction Workout

You may need to work these out on another piece of paper.

$3\frac{3}{5} + 2\frac{1}{4} =$

 $5\frac{17}{20}$ 

$2\frac{2}{5} + 1\frac{3}{4} =$

 $4\frac{3}{20}$ 

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

 $6\frac{5}{12}$ 

$2\frac{2}{3} + 1\frac{1}{5} =$

 $3\frac{13}{15}$ 

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

 $5\frac{7}{15}$ 

$3\frac{2}{3} + 2\frac{2}{7} =$

 $5\frac{20}{21}$ 

$3\frac{4}{6} - 1\frac{1}{6} =$

 $2\frac{3}{6}$ 

$2\frac{5}{6} - 1\frac{1}{3} =$

 $1\frac{3}{6}$ 

$2\frac{5}{8} - 1\frac{3}{4} =$

 $\frac{7}{8}$ 

$2\frac{3}{5} - 1\frac{4}{5} =$

 $\frac{4}{5}$ 

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

 $1\frac{2}{3}$ 

$3\frac{2}{5} - 1\frac{3}{4} =$

 $1\frac{13}{20}$



# Biggest Wins - A Fraction Game

Workout D

You need:

1 - 10 cards (At the back of the pack)

To play:

Shuffle the cards.

Deal four cards to each player.

Each player makes two proper fractions then adds them to find a total.

The player with the largest total scores a point.

To win:

The winner is the first player to score five points.

Play again, but make improper fractions this time.



# Missing Number Workout

Solve each calculation in at least four different ways.  
(The missing numbers could have 2 digits)

Possible  
Solution

$$2\frac{1}{\boxed{2}} + 2\frac{1}{\boxed{4}} = 4\frac{3}{\boxed{4}}$$

$$2\frac{1}{\boxed{3}} + 2\frac{1}{\boxed{9}} = 4\frac{4}{\boxed{9}}$$

Find the missing digits.

Solve each calculation in several ways if possible.

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

$$3\frac{\boxed{4}}{5} - 1\frac{\boxed{9}}{10} = 1\frac{9}{\boxed{10}}$$

$$2\frac{3}{\boxed{6}} + \frac{\boxed{7}}{\boxed{8}} = 3\frac{3}{8}$$

Solve all calculations together using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9  
once each.



# Book Shelf Challenge

Workout F

Colin is sorting his books out and is filling shelves in a very organised way. The table shows the type of books and the fraction of shelves that are filled.

Books	Fraction of shelves filled
Stories about explorers	$1\frac{2}{3}$
Astronomy books	$1\frac{3}{4}$
Recipe books	$1\frac{4}{5}$
Keep Fit books	$1\frac{5}{6}$

What is the difference between the fractions of shelves filled by different types of books?

What do you notice?

		Difference
Stories	Astronomy	$\frac{1}{12}$
Stories	Recipe	$\frac{2}{15}$
Stories	Keep Fit	$\frac{1}{6}$
Astronomy	Recipe	$\frac{1}{20}$
Astronomy	Keep Fit	$\frac{1}{12}$
Recipe	Keep Fit	$\frac{1}{30}$

Investigate further:

Possible Solutions

Find two mixed numbers with different denominators that have a

difference of  $\frac{1}{10}$       $3\frac{1}{2}$       $3\frac{4}{10}$

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

$\frac{1}{8}$       $7\frac{7}{8}$       $7\frac{3}{4}$



## Word Problem Workout

Colin is having a party.

He has  $\frac{3}{5}$  kg of Caribou nuts in one bag and  $\frac{3}{4}$  kg of Caribou nuts in another bag.

What weight of Caribou nuts does he have in total?  $1\frac{7}{20}$

Colin has taken up jogging.

He jogs  $3\frac{3}{4}$  km on Saturday and  $2\frac{2}{3}$  km on Sunday.

How far did he jog in total?  $6\frac{3}{12}$

How much further did he jog on Saturday than Sunday?  $1\frac{1}{12}$

Colin weighs  $165\frac{2}{3}$  kg.

Coco weighs  $\frac{5}{8}$  kg.

What is the difference between their weights?  $165\frac{1}{24}$

Colin has a long journey to make.

He travels  $\frac{3}{8}$  of the journey, has a break then travels  $\frac{1}{3}$  of the journey.

What fraction of the journey does he have left to travel?  $\frac{7}{24}$

Coco is making a fruit punch. She pours in  $1\frac{2}{3}$  litres of Tropical juice,  $\frac{4}{5}$  litres of Lemonade.

How much fruit punch has Coco made so far?  $2\frac{7}{15}$

How much more Tropical Juice than lemonade does she use?  $\frac{13}{15}$

Create your own problem for  $2\frac{1}{4}$  subtract  $1\frac{1}{3}$



# 1 - 20 Workout

Workout H

Using the digits from today's date create all the numbers from 1 - 20. You can use any or all of the four operations. You must use all the digits every time.

Example: 27/3/20 (27th March)

1	11	
2	12	
3	13	$7 \times 2 = 14$ $3 - 2 - 0 = 1$ $14 - 1 = 13$
4	14	$7 + 2 - 3 - 2 - 0 = 4$
5	15	
6	16	$7 + 3 - 2 - 2 - 0 = 6$
7	17	
8	18	
9	19	$7 \times 2 - 3 - 2 - 0 = 9$
10	20	