



# Colin and Coco's Daily Maths Workout

## Workout 6.5

### Fractions: Calculating





## Fractions: Calculating Workout

Workout A

$$\frac{1}{2} + \frac{1}{3} = \boxed{\phantom{000}}$$

$$\frac{2}{5} + \frac{1}{4} = \boxed{\phantom{000}}$$

$$\frac{4}{7} + \frac{4}{5} = \boxed{\phantom{000}}$$

$$\frac{1}{3} + \frac{1}{4} = \boxed{\phantom{000}}$$

$$\frac{2}{5} + \frac{3}{4} = \boxed{\phantom{000}}$$

$$\frac{2}{7} + \frac{4}{5} = \boxed{\phantom{000}}$$

$$\frac{1}{4} + \frac{1}{5} = \boxed{\phantom{000}}$$

$$\frac{2}{3} + \frac{4}{7} = \boxed{\phantom{000}}$$

$$\frac{1}{3} + \frac{2}{6} + \frac{1}{5} = \boxed{\phantom{000}}$$

$$\frac{1}{5} + \frac{1}{6} = \boxed{\phantom{000}}$$

$$\frac{2}{3} + \frac{3}{8} = \boxed{\phantom{000}}$$

$$\frac{1}{4} + \frac{3}{8} + \frac{1}{6} = \boxed{\phantom{000}}$$

## Fractions: Calculating Workout

Workout B

$$1\frac{4}{7} + 1\frac{1}{7} = \boxed{\phantom{000}}$$

$$1\frac{2}{7} - \frac{5}{7} = \boxed{\phantom{000}}$$

$$1\frac{3}{7} + \frac{5}{7} = \boxed{\phantom{000}}$$

$$1\frac{1}{5} + 2\frac{3}{5} = \boxed{\phantom{000}}$$

$$2\frac{3}{5} - 1\frac{2}{5} = \boxed{\phantom{000}}$$

$$2\frac{2}{5} - 1\frac{3}{5} = \boxed{\phantom{000}}$$

$$1\frac{1}{4} + 1\frac{3}{8} = \boxed{\phantom{000}}$$

$$2\frac{3}{4} - 1\frac{1}{8} = \boxed{\phantom{000}}$$

$$2\frac{3}{4} + 1\frac{3}{8} = \boxed{\phantom{000}}$$

$$1\frac{1}{6} + 2\frac{2}{3} = \boxed{\phantom{000}}$$

$$3\frac{5}{6} - 1\frac{2}{3} = \boxed{\phantom{000}}$$

$$3\frac{2}{3} - 1\frac{5}{6} = \boxed{\phantom{000}}$$

## Fractions: Calculating Workout

Workout C

$$\frac{1}{2} \times \frac{1}{3} = \boxed{\phantom{000}}$$

$$\frac{1}{2} \div 2 = \boxed{\phantom{000}}$$

$$1\frac{1}{3} \times 2 = \boxed{\phantom{000}}$$

$$\frac{1}{2} \times \frac{2}{3} = \boxed{\phantom{000}}$$

$$\frac{1}{2} \div 3 = \boxed{\phantom{000}}$$

$$1\frac{3}{4} \times 2 = \boxed{\phantom{000}}$$

$$\frac{3}{4} \times \frac{2}{3} = \boxed{\phantom{000}}$$

$$\frac{2}{8} \div 2 = \boxed{\phantom{000}}$$

$$2\frac{1}{5} \times 3 = \boxed{\phantom{000}}$$

$$\frac{2}{3} \times \frac{2}{5} = \boxed{\phantom{000}}$$

$$\frac{2}{5} \div 3 = \boxed{\phantom{000}}$$

$$4 \times 1\frac{3}{4} = \boxed{\phantom{000}}$$



## Make it Equal Game

Workout D

You need:

Fractions cards (at the bottom of this sheet.)

To play:

Shuffle the cards and place them face down on the table.

Player A picks 2 cards and adds the fractions to find the total.

Player B picks just one card and calculates the difference between their card and player A's total. This is Player B's score.

Players then swap roles.

Player A: My fractions are  $\frac{5}{6}$  and  $\frac{3}{4}$   
so my total is  $1\frac{7}{12}$   
Player B: My fraction card is  $\frac{7}{8}$  so I  
score  $\frac{17}{24}$

(If Player B's card is equal to Player A's total then they score nothing.)

To win:

The winner is the first player to accumulate a score of over 3

$$\frac{5}{8}$$

$$\frac{5}{12}$$

$$\frac{3}{4}$$

$$\frac{5}{6}$$

$$\frac{4}{6}$$

$$\frac{7}{12}$$

$$\frac{7}{8}$$



## Missing Number Workout

Workout E

Put digits in the empty boxes to complete the calculations.  
Complete each one in several different ways.

$$\frac{\square}{9} + \frac{\square}{3} = \frac{\square}{\square}$$

$$1\frac{5}{\square} = \square\frac{\square}{8} - \square\frac{\square}{\square}$$

$$\frac{2}{\square} \times \square = \frac{\square\square}{9}$$

Are there any boxes that it is impossible to put a 5 in?  
Why?

Are there any boxes that could have any of the digits in them?

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



## Pick and Mix Challenge

Workout F

A group of children are going to the cinema. They club together to buy 2kg of  
Pick and Mix

The sweets have to be purchased in the following weights.

Jellied Eels  $\frac{2}{5}$  kg



Mint Rock  $\frac{3}{4}$  kg



Liquorice Sticks  $\frac{3}{10}$  kg



Toffee Chews  $\frac{3}{8}$  kg



Which sweets could they buy to make up 2kg?  
Find at least two different ways.



## Word Problem Workout

Workout G

Coco has a recipe that needs  $\frac{3}{4}$  kg of nuts.  
She has two packets of nuts with  $\frac{3}{8}$  kg in each packet.  
Does she have enough nuts?

Colin goes jogging.  
He jogs  $\frac{3}{4}$  km every day for a week.  
How far has he jogged in total?

Coco has a bottle of lemonade. It has  $\frac{5}{6}$  of a litre of lemonade in it.  
Coco and Colin share the lemonade equally.  
What fraction of a litre do they each drink?

Coco is trying to eat more healthily.  
She eats  $\frac{1}{3}$  of a grapefruit each day.  
How many grapefruits will she need to buy to last a week?

Coco is cutting ribbons for decorations.  
She has  $\frac{6}{7}$  of a metre of ribbon. She cuts it into 3 equal pieces.  
What fraction of a metre is each piece?

Create your own problems to multiply or divide fractions.



# Who am I? Workout

Use the clues to work out Colin's mystery number.

You may want to cross numbers off on the 100 grid as you consider each clue.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- |                                   |   |
|-----------------------------------|---|
| 1) I am odd                       | 6) One of my digits is a factor of 12     |
| 2) I am not a multiple of 7       | 7) Both digits are not multiples of 3     |
| 3) I am not a square number       | 8) I am not a multiple of 9               |
| 4) Only one of my digits is prime | 9) The sum of my digits is a prime number |
| 5) My digits are not equal        | 10) I have a common factor with 26        |

Colin's mystery number is

Create your own 'Who am I?' puzzle

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Please share your puzzle with Colin @MathsCanDo



Cards for the Games

1

2

3

4

5

6

7

8

9