



Colin and Coco's Daily Maths Workout

Workout 6.5

Fractions: Calculating





Fractions: Calculating Workout

Workout A

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

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

$$\frac{4}{7} + \frac{4}{5} = \square$$

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

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

$$\frac{2}{7} + \frac{4}{5} = \square$$

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

$$\frac{2}{3} + \frac{4}{7} = \square$$

$$\frac{1}{3} + \frac{2}{6} + \frac{1}{5} = \square$$

$$\frac{1}{5} + \frac{1}{6} = \square$$

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

$$\frac{1}{4} + \frac{3}{8} + \frac{1}{6} = \square$$

Fractions: Calculating Workout

Workout B

$$1\frac{4}{7} + 1\frac{1}{7} = \square$$

$$1\frac{2}{7} - \frac{5}{7} = \square$$

$$1\frac{3}{7} + \frac{5}{7} = \square$$

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

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

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

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

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

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

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

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

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

Fractions: Calculating Workout

Workout C

$$\frac{1}{2} \times \frac{1}{3} = \square$$

$$\frac{1}{2} \div 2 = \square$$

$$1\frac{1}{3} \times 2 = \square$$

$$\frac{1}{2} \times \frac{2}{3} = \square$$

$$\frac{1}{2} \div 3 = \square$$

$$1\frac{3}{4} \times 2 = \square$$

$$\frac{3}{4} \times \frac{2}{3} = \square$$

$$\frac{2}{8} \div 2 = \square$$

$$2\frac{1}{5} \times 3 = \square$$

$$\frac{2}{3} \times \frac{2}{5} = \square$$

$$\frac{2}{5} \div 3 = \square$$

$$4 \times 1\frac{3}{4} = \square$$



Make it Equal Game

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