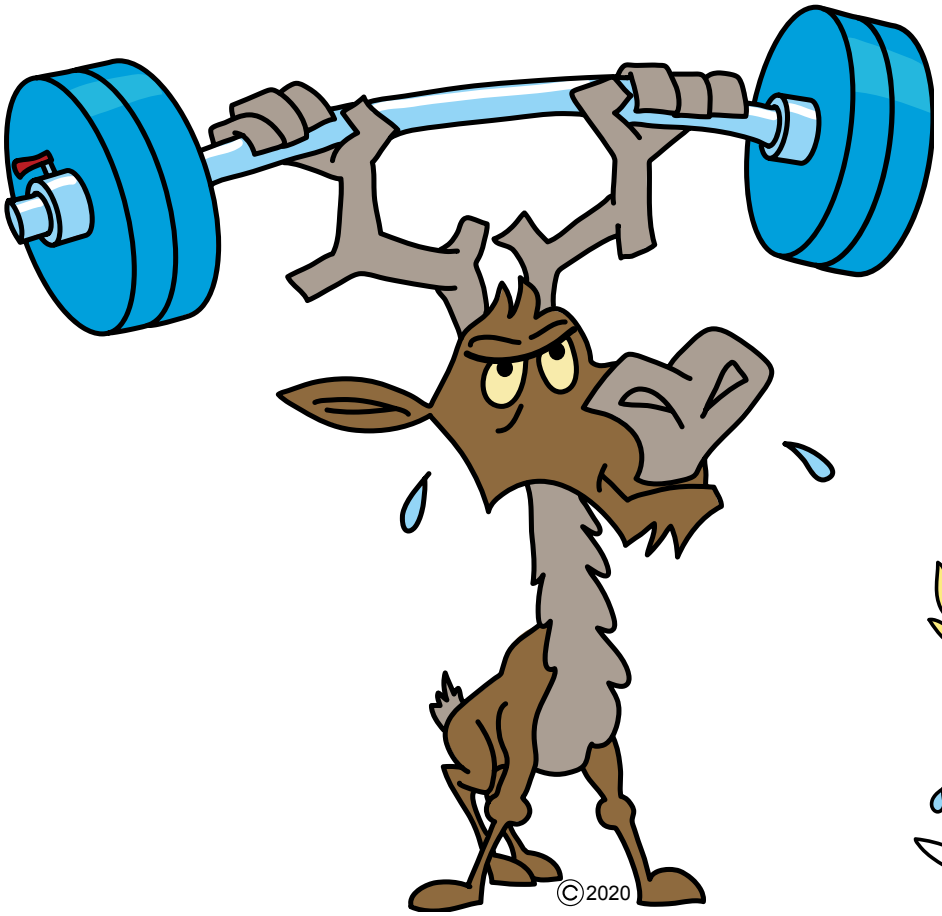
Colin and Coco's Daily Maths Workout

Workout 6.5

Fractions: Calculating





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Fractions: Calculating Workout

Workout A

$\frac{1}{2} + \frac{1}{3} =$ ☐ $\quad \frac{2}{5} + \frac{1}{4} =$ ☐ $\quad \frac{4}{7} + \frac{4}{5} =$ ☐

$\frac{1}{3} + \frac{1}{4} =$ ☐ $\quad \frac{2}{5} + \frac{3}{4} =$ ☐ $\quad \frac{2}{7} + \frac{4}{5} =$ ☐

$\frac{1}{4} + \frac{1}{5} =$ ☐ $\quad \frac{2}{3} + \frac{4}{7} =$ ☐ $\quad \frac{1}{3} + \frac{2}{6} + \frac{1}{5} =$ ☐

$\frac{1}{5} + \frac{1}{6} =$ ☐ $\quad \frac{2}{3} + \frac{3}{8} =$ ☐ $\quad \frac{1}{4} + \frac{3}{8} + \frac{1}{6} =$ ☐

Fractions: Calculating Workout

Workout B

$1\frac{4}{7} + 1\frac{1}{7} =$ ☐ $\quad 1\frac{2}{7} - \frac{5}{7} =$ ☐ $\quad 1\frac{3}{7} + \frac{5}{7} =$ ☐

$1\frac{1}{5} + 2\frac{3}{5} =$ ☐ $\quad 2\frac{3}{5} - 1\frac{2}{5} =$ ☐ $\quad 2\frac{2}{5} - 1\frac{3}{5} =$ ☐

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

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

Fractions: Calculating Workout

Workout C

$\frac{1}{2} \times \frac{1}{3} =$ ☐ $\quad \frac{1}{2} \div 2 =$ ☐ $\quad 1\frac{1}{3} \times 2 =$ ☐

$\frac{1}{2} \times \frac{2}{3} =$ ☐ $\quad \frac{1}{2} \div 3 =$ ☐ $\quad 1\frac{3}{4} \times 2 =$ ☐

$\frac{3}{4} \times \frac{2}{3} =$ ☐ $\quad \frac{2}{8} \div 2 =$ ☐ $\quad 2\frac{1}{5} \times 3 =$ ☐

$\frac{2}{3} \times \frac{2}{5} =$ ☐ $\quad \frac{2}{5} \div 3 =$ ☐ $\quad 4 \times 1\frac{3}{4} =$ ☐

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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

$\frac{5}{8}$ $\frac{5}{12}$ $\frac{3}{4}$ $\frac{5}{6}$

$\frac{4}{6}$ $\frac{7}{12}$ $\frac{7}{8}$

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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.

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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.

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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.

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Workout H

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
2) I am not a multiple of 7
3) I am not a square number
4) Only one of my digits is prime
5) My digits are not equal
6) One of my digits is a factor or 12
7) Both digits are not multiples of 3
8) I am not a multiple of 9
9) The sum of my digits is a prime number
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

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Cards for the Games

1	2	3
4	5	6
7	8	9

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