



Colin and Coco's Daily Maths Workout

Workout 6.6

Answers

Addition and Subtraction:
Adding and Subtracting Decimals





Addition and Subtraction Workout

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

Workout A

$4.316 + 2.527 = 6.843$

$4.526 + 1.87 = 6.396$

$5.842 + 3.7 = 9.542$

$8.145 + 1.878 = 10.023$

$3.67 + 2.587 = 6.257$

$7.6 + 3.762 = 11.362$

$3.728 + 0.467 = 4.195$

$7.863 + 4.78 = 12.643$

$8.8 + 8.888 = 17.688$

Addition and Subtraction Workout

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

Workout B

$4.742 - 3.176 = 1.566$

$4.312 - 1.57 = 2.742$

$4.362 - 2.7 = 1.662$

$8.482 - 3.716 = 4.766$

$8.042 - 2.95 = 5.092$

$7.654 - 3.8 = 3.854$

$8.402 - 0.776 = 7.626$

$2.076 - 1.58 = 0.496$

$5.006 - 2.7 = 2.306$

Addition and Subtraction Workout

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

Workout C

$4.36 + 8.7 = 13.06$

$3.76 = 6.56 - 2.8$

$4.8 + 5.67 = 10.47$

$3.78 = 8.6 - 4.82$

$6.56 + 2.8 = 9.36$

$3.13 = 4 - 0.87$

$7.8 + 2.56 = 10.36$

$4.34 = 9.04 - 4.7$

$7.86 + 3.28 = 11.14$



Decimal Subtraction Target Game

Workout D

You need:

1 - 9 cards (at the end of this pack.)

Pen and paper

To play:

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

Every time it is your turn you turn over 3 cards and use them in any order to make a tenths, hundredths and thousandths number.

You are aiming to make a number as close to the target number of 0.408 as you can.

Work out the difference between your answer and the target number of 0.408
This is your score.

I have 7, 1 and 3

I will make 0.371

I score 0.037 because the difference
between 0.408 and 0.371 is 0.037

$$\begin{array}{r} 0.\overset{3}{4}\overset{1}{0}8 \\ - 0.371 \\ \hline 0.037 \end{array}$$

To win:

The winner is the player with the lowest total score after three goes each.

Try changing the target number to between 0.3 and 0.6, to change the challenge.



Missing Number Workout

Workout E

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

Possible
Solution

$$\begin{array}{r} 3 . 4 6 \boxed{9} \\ + \boxed{0} . 8 5 \boxed{2} \\ \hline 4 . \boxed{3} 2 1 \end{array}$$

$$\begin{array}{r} \boxed{4} . \boxed{6} 0 2 \\ - \boxed{1} . \boxed{8} 3 \\ \hline 2 . 7 \boxed{7} 2 \end{array}$$

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

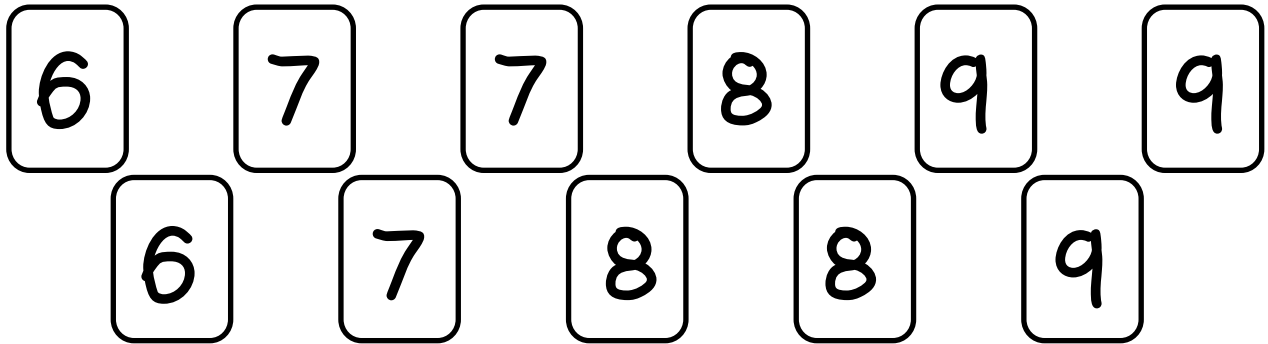
Are there any boxes that could have any of the digits in them?

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



Digits make Twenty five

Colin chooses three cards with a total of 25



He uses them to make a number.

0.

Coco chooses three cards with a total of 25

She uses them to make a number.

0.

They add their numbers together.

What is the smallest total they could get?

$$0.799 + 0.799 = 1.598$$

What is the largest total they could get.

$$0.997 + 0.997 = 1.994$$

Colin thinks all their totals will have at least one 7, 8 or 9 in the answer.

Do you agree?

Explain your thinking.

Always at least two 8s or two 9s so there will be a total of 17 or 18 in a column, and exchange, will give 19.

$$0.997 + 0.997 =$$

$$0.979 + 0.979 =$$

$$0.799 + 0.799 =$$

$$0.989 + 0.989 =$$

$$0.997 + 0.979 =$$

$$0.979 + 0.799 =$$

$$0.799 + 0.988 =$$

$$0.989 + 0.899 =$$

$$0.997 + 0.799 =$$

$$0.979 + 0.988 =$$

$$0.799 + 0.989 =$$

$$0.997 + 0.988 =$$

$$0.979 + 0.989 =$$

$$0.799 + 0.899 =$$

$$0.899 + 0.899 =$$

$$0.997 + 0.899 =$$

$$0.979 + 0.899 =$$

$$0.988 + 0.988 =$$

$$0.988 + 0.989 =$$

$$0.988 + 0.899 =$$



Word Problem Workout

Workout G

Coco is trying to build her muscles up.
Last month she weighed 0.674kg.
This month she weighed 0.71kg.
How much weight has she put on?

0.036kg or 36 g

Colin has £100.
He buys new wireless airbuds for £29.99
He buys a new phone case for £24.99
How much money has he left?

£45.02

Colin is planning a country walk. If he turns left out of the car park and through the woods the walk is 2.555km.
If he turns right and goes over the hill the walk is 5.1km
How much longer is the second walk?

2.545km

One kitten weighs 0.675kg and a second kitten weighs 0.8kg
What is the difference in the weight of the two kittens?

0.125kg

Coco is building a shelving unit.
She has a plank of wood 2.4m long.
She cuts one shelf of 75.5cm and another shelf of 1.375m.
How much of the plank does she have left?

27cm or 0.27m

Create your own problems for adding or subtracting decimal numbers.



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 even
- 2) I am not a multiple of 7
- 3) One of my digits is a square number
- 4) I am not a multiple of 9
- 5) My digits are not equal
- 6) Both of my digits are factors of 24
- 7) I am not a square number
- 8) I am a multiple of 4
- 9) The sum of my digits is not prime number
- 10) One of my digits is a cube number

Colin's mystery number is 48

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