



Colin and Coco's Daily Maths Workout

Workout 6.3

Place Value





Workout A

Place Value Workout

Insert < or >

- | | | | | | |
|-----------|-----------------------|-----------|-----------|-----------------------|-----------|
| 702,000 | <input type="radio"/> | 701,000 | 1,062,043 | <input type="radio"/> | 1,062,304 |
| 4,940,000 | <input type="radio"/> | 5,190,000 | 5,140,320 | <input type="radio"/> | 5,140,032 |
| 4,734,000 | <input type="radio"/> | 3,737,000 | 6,734,377 | <input type="radio"/> | 1,734,733 |
| 2,435,000 | <input type="radio"/> | 2,465,000 | 2,099,999 | <input type="radio"/> | 2,100,001 |
| 810,100 | <input type="radio"/> | 801,100 | 7,811,000 | <input type="radio"/> | 7,810,999 |

Workout B

Place Value Workout

What is the value of the 3 in each number?

What is the value of the 7 in each number?

- 1,703,750
- 3,296,045
- 8,167,321
- 4,329,461
- 462,739

- 2,274,650
- 5,289,475
- 8,765,321
- 7,329,491
- 3,427,839

Workout C

Place Value Workout

Start with 20,100,100 each time:

Start with 19,989,199 each time:

- Find 1 less
- 1000 less
- 10,000 less
- 10 less

- Find 1 more
- 100,000 more
- 1000 more
- 1 million more



Largest Wins Game

You need:

A baseboard (as shown at the bottom of this page)

Two sets of cards 1 - 9 (Use playing cards or print off the cards at the back of the pack.)

To play:

Shuffle the two sets of cards together.

Put the cards in a deck face down.

Player one takes three cards and chooses which cards will be the millions, hundreds of thousands and tens of thousands digits.

I have turned over a 3, 7 and 4. I am going to make 7 million, 4 hundred and thirty thousand.

Then it is Player 2's turn to pick three cards and make a number.

Player 1 now picks three new cards and tries to make a number between the two numbers made so far.

If they succeed they score a point. If not, no point is scored.

Put all cards back into the deck and shuffle the deck.

Players then swap roles.

To win:

The winner is the first player to score five points.

First number , 0,000

, 0,000

Try to make a number
in between

Second number , 0,000



Missing Number Workout

Workout E

Put digits in the empty boxes so that the three numbers are in order from smallest to largest.

Complete them in several different ways.

$$4, \square 2 \square, \square 7 \square$$

$$4, 6 \square 8, \square 7 \square$$

$$4, 6 \square \square, 8 7 \square$$

Are there any boxes that it is impossible to put a 7 in? Why?
What about other impossible digits?

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

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



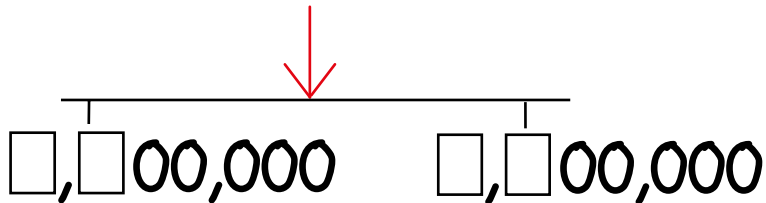
Midpoint Challenge

Workout F

Colin and Coco are plotting numbers on a number line.

They are picking cards to fill the empty boxes. Coco is making the number at each end of the line.

Then Colin finds the number that is exactly half way between them.



The four cards they have picked are 3, 5, 6 and 8

Using the number line above, make some numbers and calculate the midpoints.

Colin plots the midpoint as 5,150,000. What were Coco's numbers?

Can you find a smaller midpoint?

Investigate what happens to the midpoint if you keep the millions digits the same but swap the hundreds of thousands digits.

e.g. The midpoint between 5,600,000 and 8,300,000 compared to the midpoint between 5,300,000 and 8,600,000



Word Problem Workout

Colin is looking at prize money for some sporting events.

The prize money for the Caribou Golf World Cup competition is £1,050,000

The prize money for the Reindeer Cricket Cup is £1,500,990

The prize money for the Moose Hockey Tournament is £1,111,000

Which competition has the most prize money?

Coco is looking at property prices.

House A is detached with stables for £2,450,000

House B is detached with tennis courts for £2,495,000

House C is detached with an annex for £2,500,000

House D is detached with a paddock for £2,449,000

Put the houses in ascending order of price.

Trevor wins £10,000,500 in a lottery draw.

He gives £1000 to charity.

How much does he have left?

British railway stations are busy places. In one year the number of passengers travelling through the following stations was:

Newcastle - 7,706,476 passengers

Barking - 7,427,422 passengers

Romford - 6,998,896 passengers

York - 7,581,428 passengers

Put the stations in order from busiest to quietest.

In recent research Coco finds the approximate populations of some countries.

United Kingdom - 65,080,000

France - 66.4 million

Italy - 60,930,000

Put the populations in order of size from smallest to largest.

Create your own problems for putting numbers in order.



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.

1	11
2	12
3	13
4	14
5	15
6	16
7	17
8	18
9	19
10	20



Cards for the Games

1

2

3

4

5

6

7

8

9