



# Colin and Coco's Daily Maths Workout



Workout 2.10

Answers

Keep-uppI (Term 2)



KPIs for Term 2 (Part 1)

Know that addition is commutative and subtraction is not

Subtract two 2-digit numbers

Recall and use subtraction facts to 10

Describe turns using right angles



## Subtraction Facts Workout

Workout A

Tick the box if the difference is 3

$7 - 4 =$ <span style="border: 1px solid black; padding: 2px 10px;">3</span>	<span style="border: 1px solid black; padding: 2px 10px;">5</span> $= 10 - 5$	$10 -$ <span style="border: 1px solid black; padding: 2px 10px;">3</span> $= 7$
$9 - 3 =$ <span style="border: 1px solid black; padding: 2px 10px;">6</span>	<span style="border: 1px solid black; padding: 2px 10px;">7</span> $= 9 - 2$	$9 -$ <span style="border: 1px solid black; padding: 2px 10px;">7</span> $= 2$
$8 - 5 =$ <span style="border: 1px solid black; padding: 2px 10px;">3</span>	<span style="border: 1px solid black; padding: 2px 10px;">4</span> $= 8 - 4$	$8 -$ <span style="border: 1px solid black; padding: 2px 10px;">6</span> $= 2$
$9 - 5 =$ <span style="border: 1px solid black; padding: 2px 10px;">4</span>	<span style="border: 1px solid black; padding: 2px 10px;">4</span> $= 10 - 6$	$10 -$ <span style="border: 1px solid black; padding: 2px 10px;">8</span> $= 2$
$7 - 5 =$ <span style="border: 1px solid black; padding: 2px 10px;">2</span>	<span style="border: 1px solid black; padding: 2px 10px;">10</span> $- 2 = 8$	<span style="border: 1px solid black; padding: 2px 10px;">10</span> $- 6 = 4$

$7 - 4$	<input checked="" type="checkbox"/>
$8 - 5$	<input checked="" type="checkbox"/>
$10 - 6$	<input type="checkbox"/>
$9 - 6$	<input checked="" type="checkbox"/>
$6 - 2$	<input type="checkbox"/>

## Subtraction Workout

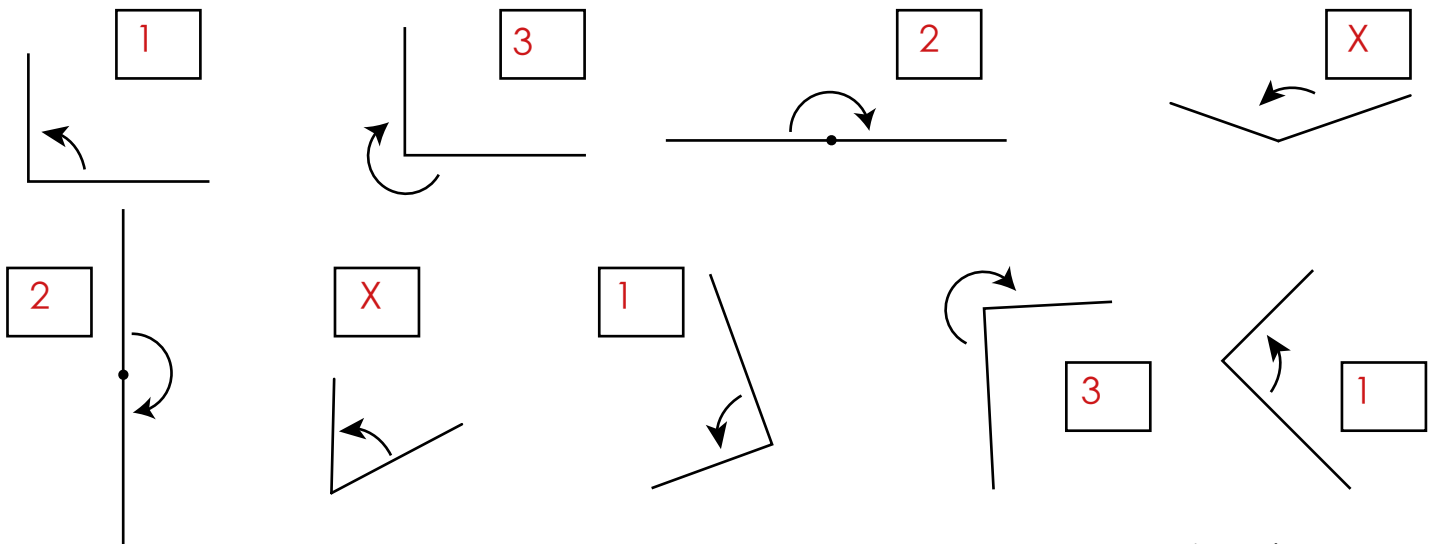
Workout B

$35 - 20 =$ <span style="border: 1px solid black; padding: 2px 10px;">15</span>	$53 - 30 =$ <span style="border: 1px solid black; padding: 2px 10px;">23</span>	$53 - 49 =$ <span style="border: 1px solid black; padding: 2px 10px;">4</span>	$32 - 4 =$ <span style="border: 1px solid black; padding: 2px 10px;">28</span>
$42 - 20 =$ <span style="border: 1px solid black; padding: 2px 10px;">22</span>	$67 - 40 =$ <span style="border: 1px solid black; padding: 2px 10px;">27</span>	$32 - 28 =$ <span style="border: 1px solid black; padding: 2px 10px;">4</span>	$41 - 3 =$ <span style="border: 1px solid black; padding: 2px 10px;">38</span>
$51 - 20 =$ <span style="border: 1px solid black; padding: 2px 10px;">31</span>	$78 - 50 =$ <span style="border: 1px solid black; padding: 2px 10px;">28</span>	$61 - 58 =$ <span style="border: 1px solid black; padding: 2px 10px;">3</span>	$63 - 4 =$ <span style="border: 1px solid black; padding: 2px 10px;">59</span>
$87 - 20 =$ <span style="border: 1px solid black; padding: 2px 10px;">57</span>	$89 - 60 =$ <span style="border: 1px solid black; padding: 2px 10px;">29</span>	$72 - 67 =$ <span style="border: 1px solid black; padding: 2px 10px;">5</span>	$84 - 6 =$ <span style="border: 1px solid black; padding: 2px 10px;">78</span>

## Right Angle Workout

Workout C

Write the number of right angles the line has turned.  
Or put a cross if cannot be described as right angle turns.





## 9 or 19 Less Game

You need:

100 Board (on the next page.)

Two sets of cards 0 - 9 (cards at the back of the pack.)

Counters or coloured pencils for each player

To play:

Shuffle the two sets of cards together.

Put the cards in a deck face down.

Take it in turns to turn over two cards, to make a two-digit number. The first one is the tens digit, the second one is the ones digit.

Choose whether to find 9 or 19 less than your number and cover the answer on the board.

I have turned over a 3 and a 7  
If I have 3 tens and 7 ones the number is  
thirty-seven.  
I will find 19 less than 37 by taking away  
20 then adding 1  
I will cover 18 on the board.

Place the cards in a discard pile, then it is the next player's turn.

If all the cards have been used, shuffle them and continue playing.

To win:

The winner is the first player to get 4 in a line vertically, horizontally or diagonally.



## 9 or 19 Less Game Board

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



## Missing Number Workout

Workout E

Put digits in the empty boxes so that the calculations are correct.

Complete them in several different ways.

Possible solution

$$53 - \boxed{6} = 4\boxed{7}$$

$$3\boxed{1} - \boxed{2}8 = \boxed{3}$$

$$7\boxed{5} = 9\boxed{4} - 19$$

$$\boxed{8}\boxed{9} - 9 = 8\boxed{0}$$

Are there any boxes that it is impossible to put a 9 in? Why?  
What about other impossible digits?

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

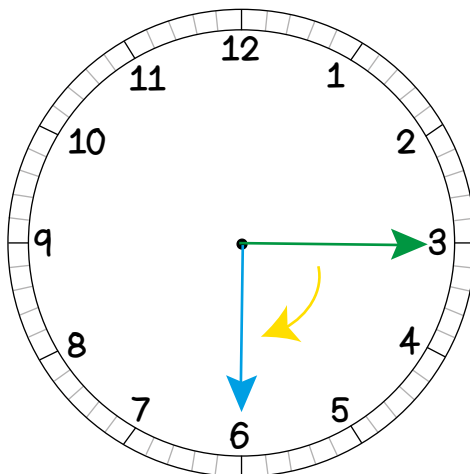
Now complete it using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 once each.



## Right Angle Challenge

Workout F

Colin is looking at the minute hand on the clock.  
He imagines it turning through one right angle.



Investigate possible starting and ending numbers.

What do you notice?

1, 4	5, 8	9, 12
2, 5	6, 9	10, 1
3, 6	7, 10,	11, 2
4, 7	8, 11	12, 3

What if the hand turned through two right angles?



# Word Problem Workout

Workout G

1. Colin has a bunch of 21 roses.  
3 of the roses die.  
How many are left?

18

2. Colin has 17 stickers and uses 4  
He says the calculation he needs to do is  $4 - 17$   
Do you agree? Explain your thinking.

$17 - 4$

Subtraction is not commutative.

3. Coco has 43 red bricks and 27 blue bricks.  
To find the total she thinks it doesn't matter which way she adds them.  
Colin thinks she has to start with 43  
Who do you agree with? Why?

Coco

Addition is commutative.

4. Coco's sunflower is 72cm tall.  
Colin's sunflower is 67cm tall.  
What is the difference in the heights of the sunflowers?

5cm

5. Colin and Coco have a single digit number of biscuits each.  
The difference between the number they have is 2  
Coco has more than Colin.  
How many biscuits could they each have?

Colin, Coco

1, 3      5, 7

2, 4      6, 8

3, 5      7, 9

4, 6

Create your own problems subtracting two numbers.

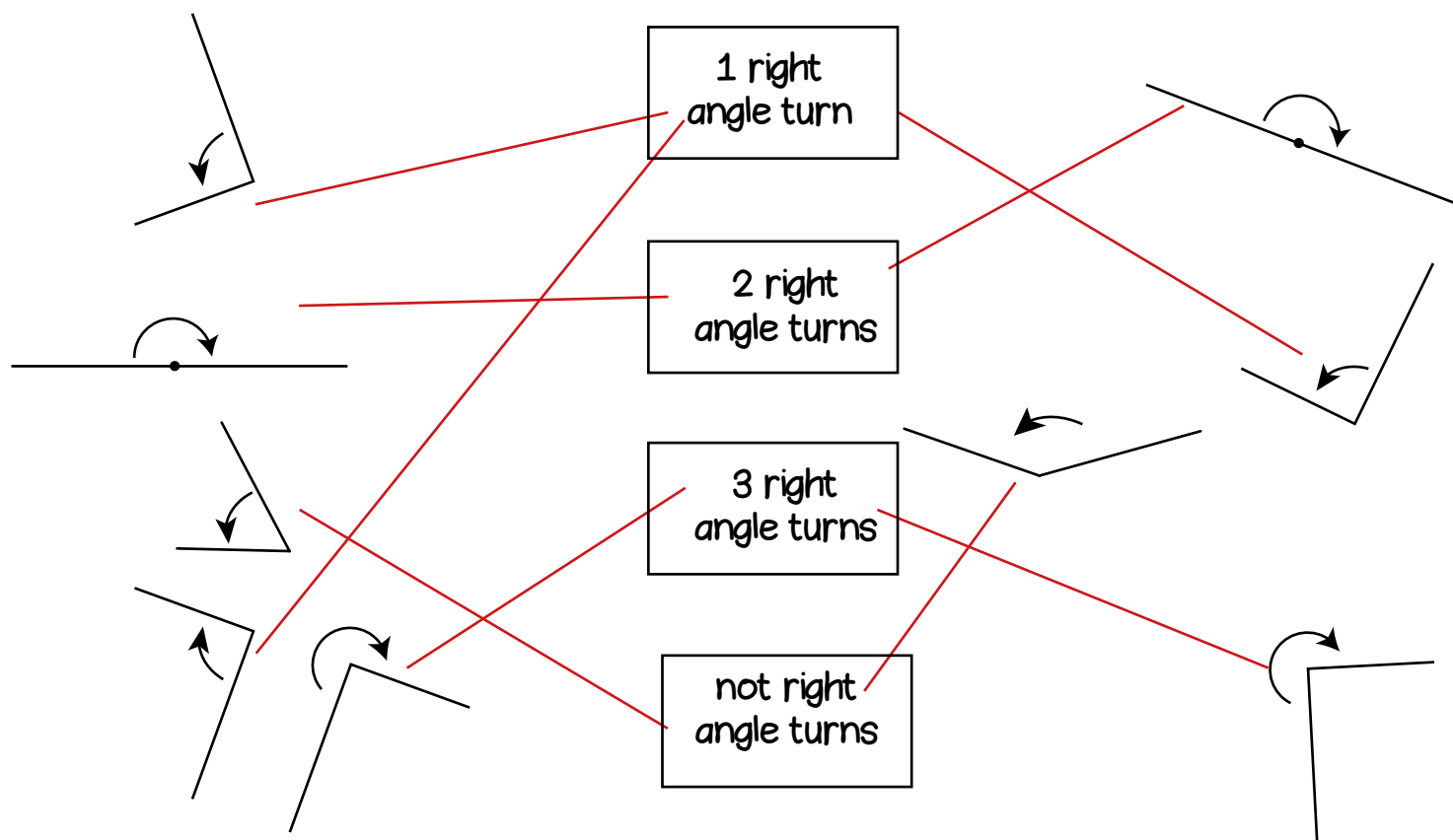


# Matching Workout

Match questions to correct answers.  
Fill in the missing buddies.

$42 - 9$	$36$
$72 - 40$	$33$
$84 - 49$	$32$
$66 - 30$	$31$
$98 - 68$	$34$
$60 - 29$	$35$
$55 - 21$	$30$
$59 - 20$	$38$
$66 - 28$	$39$

Match angles to the number of right angle turns they show.



Create your own Matching Workout.





## Cards for the Games

1

2

3

4

5

6

7

8

9

0