

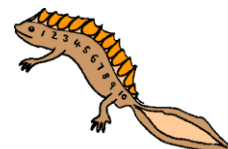


# NEWTON'S NUMBER TRACK PUZZLE 5

Each number in the number track is made by adding the previous 2 numbers.

Example

8	11	19	30	49
---	----	----	----	----



- The 3<sup>rd</sup> number is made by adding the first 2 numbers:  $8 + 11 = 19$ .
- The 4<sup>th</sup> number is made by adding the 2<sup>nd</sup> and 3<sup>rd</sup> number:  $11 + 19 = 30$ , etc.

Fill in the missing numbers in these number tracks.

1)

7	6			
---	---	--	--	--

2)

70	40			
----	----	--	--	--

3)

0.3	0.5			
-----	-----	--	--	--

4)

0.4	0.8			
-----	-----	--	--	--

5)

$1\frac{1}{2}$	$2\frac{1}{2}$			
----------------	----------------	--	--	--

6)

$\frac{1}{4}$	$\frac{1}{2}$			
---------------	---------------	--	--	--

7)

12		21		
----	--	----	--	--

8)

0.5		0.9		
-----	--	-----	--	--

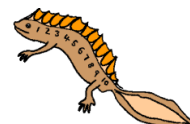
9)

8			44	
---	--	--	----	--

10)

				100
				100
				100
				100

Can you find 4 different integer answers for question 10?





# NEWTON'S NUMBER TRACK PUZZLE 5 ANSWERS

1)	7	6	13	19	32
2)	70	40	110	150	260
3)	0.3	0.5	0.8	1.3	2.1
4)	0.4	0.8	1.2	2	3.2
5)	$1\frac{1}{2}$	$2\frac{1}{2}$	4	$6\frac{1}{2}$	$10\frac{1}{2}$
6)	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	2
7)	12	9	21	30	51
8)	0.5	0.4	0.9	1.3	2.2
9)	8	18	26	44	70
10)	50	0	50	50	100
	20	20	40	60	100
	5	30	35	65	100
	35	10	45	55	100
	38	8	46	54	100

There are an infinite number of solutions to question 10.

As long as  $(2 \times \text{the 1}^{\text{st}} \text{ number}) + (3 \times \text{the 2}^{\text{nd}} \text{ number}) = 100$ , it will work.