

# Miss Feely's Fluid Group Maths – Week 5

## Task 1

**Learning Intention** – Strengthening number skills by making connections between number skip counting patterns and the colour patterns they make on a 100s chart.

**Success Criteria** –

- I can work out the rule for the skip counting pattern
- I can use the rule to work out the missing numbers
- I can use the rule to colour the skip counting pattern on my 100s chart and make connections with the colour pattern that it makes

**Instructions** – Be a 'number detective' and work out the skip counting pattern for each question. Remember that detectives can use their fingers to keep track of how much the number is going up or down by each time before working out the missing numbers.

Once you have solved the case of the missing numbers, colour in at least the first 3 of the counting patterns on the hundreds chart all the way to the end. If your pattern did not start at 0, you can work backwards to colour in the squares before that number too.

If you have access to the internet, you can use the Splat Squares instead of printing a 100s chart <https://primarygames.co.uk/pg2/splat/splatsq100.html>

...If you love Splat Squares as much as me, make as many new number patterns as you like!

Do you see colour patterns appear on your 100s chart as you colour the number pattern? How does it compare to the other counting patterns you have coloured? What things are similar? What is different?

## Tasks Today -

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### Complete the Skip Counting Series

- 1) 19 , 22 , 25 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 2) 12 , 22 , 32 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 3) 6 , 11 , 16 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 4) 8 , 10 , 12 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 5) 11 , 13 , 15 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 6) 9 , 14 , 19 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 7) 17 , 22 , 27 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 8) 2 , 4 , 6 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 9) 0 , 10 , 20 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 10) 15 , 18 , 21 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 11) 16 , 19 , 22 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_
- 12) 7 , 17 , 27 , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_ , \_\_\_

We can be number detectives and work out the skip counting pattern!



# HUNDREDS CHART

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

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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

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## Task 2

**Learning Intention** – Applying known strategies and awareness of number patterns to solve counting patterns that have missing starts.

**Success Criteria** –

- I can work forwards or backwards to find out the rule for the skip counting patterns
- I can use the rule to work out the missing numbers, even if I have to go backwards to find the starting numbers
- I can use the rule to colour the skip counting pattern on my 100s chart and make connections with the colour pattern that it makes
- I can experiment with my 100s chart by colouring a skip counting patterns starting at different numbers, e.g counting by 3s starting at 0 and then at 2, and compare the results.

**Instructions** – Today we need to step up our detective work! Can you be a number detective and work out the number pattern when we start from unusual numbers or have to work backwards to find the starting numbers? The detective work is the same, use your fingers to work out how much the numbers go up or down by each time and see if you can fill in the missing parts. Remember that detectives check their answers to make sure the pattern continues correctly.

Choose the top 3 skip counting patterns to colour in on your 100s chart or use the Splat Squares online. Can you see any new colour patterns today?

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### Complete the Skip Counting Series

- 1) 10, 12, 14, \_\_, \_\_, \_\_, \_\_, \_\_
- 2) 13, \_\_, \_\_, \_\_, 25, \_\_, \_\_, 34
- 3) 14, \_\_, 24, \_\_, \_\_, 39, \_\_, \_\_
- 4) \_\_, \_\_, 38, \_\_, \_\_, 68, 78, \_\_
- 5) 17, \_\_, \_\_, \_\_, \_\_, 32, 35, \_\_
- 6) \_\_, 5, 10, \_\_, \_\_, \_\_, 30, \_\_
- 7) 1, 11, \_\_, 31, \_\_, \_\_, \_\_, \_\_
- 8) \_\_, \_\_, \_\_, 9, \_\_, 13, 15, \_\_
- 9) 5, \_\_, \_\_, \_\_, 45, 55, \_\_, \_\_
- 10) 15, \_\_, \_\_, \_\_, 27, \_\_, 33, \_\_
- 11) 9, \_\_, \_\_, \_\_, \_\_, \_\_, 39, 44
- 12) 8, 10, \_\_, 14, \_\_, \_\_, \_\_, \_\_

We can be number detectives and work out the skip counting pattern!



# HUNDREDS CHART

1	2	3	4	5	6	7	8	9	10
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21	22	23	24	25	26	27	28	29	30
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51	52	53	54	55	56	57	58	59	60
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81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

## Task 3

**Learning Intention** – Applying known strategies and awareness of number patterns to solve missing number problems.

**Success Criteria** –

- I can use my detective skills to work out the rule of each in and out box
- I can apply the rule to find the missing number
- I can work backwards to find the missing rule

Detectives, today we are solving in and out boxes. Use your detective skills to apply the rule and fill in the missing 'out' boxes. Too easy? Well, let's see if you can successfully work backwards and find out the rule in the last few questions. Remember to use your fingers, if needed, to work out the difference between the 'in' and the 'out' boxes before deciding on what the rule must be. Good Luck!

## In and Out Boxes

Fill in the Empty Boxes.

1)

In	Out
8	
11	
12	
15	

Rule: Add 2

2)

In	Out
1	
4	
5	
13	

Rule: Add 1

3)

In	Out
6	
7	
11	
12	

Rule: Add 2

4)

In	Out
3	
6	
10	
15	

Rule: Add 10

5)

In	3	6	7	9
Out				

Rule: Add 4

6)

In	1	2	6	9
Out				

Rule: Add 10

7)

In	1	2	3	9
Out				

Rule: Add 3

8)

In	5	8	14	15
Out				

Rule: Add 1

Write the rule and fill in the empty boxes.

9)

In	Out
3	6
6	9
11	14
14	

Rule:

10)

In	Out
1	
3	13
6	16
7	17

Rule:

11)

In	Out
2	
5	9
7	11
11	15

Rule:

12)

In	Out
0	
6	7
8	9
10	11

Rule:

13)

In	2	4	11	13
Out	7		16	18

Rule:

14)

In	2	4	6	7
Out	4	6	8	

Rule:

Use the rule to find out what belongs in the empty boxes.



## Extra Tasks

For those detectives who just can't get enough, here are some extra work challenges! You **do not** have to complete these, they are only for those who want some extra work.



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### Complete the Skip Counting Series

- 1) 0, 10, 20, \_\_, \_\_, \_\_, \_\_, \_\_
- 2) \_\_, 28, \_\_, \_\_, \_\_, 72, 83, \_\_
- 3) 15, 17, \_\_, \_\_, \_\_, 25, \_\_, \_\_
- 4) \_\_, 10, \_\_, \_\_, \_\_, 18, \_\_, 22
- 5) \_\_, 28, \_\_, \_\_, 58, \_\_, \_\_, 88
- 6) \_\_, 15, \_\_, 25, 30, \_\_, \_\_, \_\_
- 7) 4, \_\_, 12, 16, \_\_, \_\_, \_\_, \_\_
- 8) 14, \_\_, 26, \_\_, \_\_, \_\_, \_\_, 56
- 9) \_\_, 5, 8, \_\_, 14, \_\_, \_\_, \_\_
- 10) \_\_, 16, \_\_, 26, \_\_, \_\_, \_\_, 46
- 11) \_\_, 17, \_\_, 25, \_\_, \_\_, \_\_, 41
- 12) \_\_, \_\_, 31, 42, \_\_, \_\_, 75, \_\_

This sheet is only for SUPER DETECTIVES, attempt at your own risk! - Miss Feely  Math-Aids.Com



You might also like to try Treasure Quest at home, this is an online number pattern game-

[https://www.mathplayground.com/treasure\\_quest\\_hundreds\\_chart.html](https://www.mathplayground.com/treasure_quest_hundreds_chart.html)