



MATHEMATICS



N.S. Yr. 3 P.7

**Describe and extend number sequences.
Count on and back.**

Equipment

Paper, pencil, ruler.

MathSphere

© MathSphere P.O. Box 1234 Worthing BN13 2UJ www.mathsphere.co.uk

Concepts

In year 3 counting on and back will progress to larger numbers. Starting with any small number, it is expected that children will be able to count on in steps of 2, 3, 4, 5, 10 and 100.

Counting back from larger numbers, also in 2s, 3s, 4s, 5s, 10s and 100s .

Sequences, or patterns of numbers can be recognised and children should continue to try to say what the rule is.

They should also begin to make up their own sequences of numbers, given certain conditions eg make a sequence that has a 4 and a 12 in it.

Work will continue with ***multiples***, extending to multiples of 50 and 100.



Count up in threes.
Colour the squares you land
on.

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

What do you notice?



Count up in fives
Colour the squares you land
on.

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

What do you notice?

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

What two numbers come next?



1. 4 8 12

2. 22 27 32

3. 5 15 25

4. 66 56 46

5. 59 54 49

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

What two numbers come next?



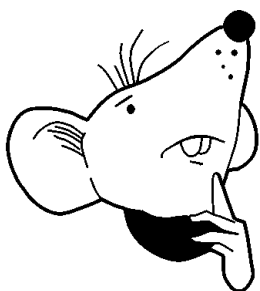
1. 9 13 17

2. 26 31 36

3. 22 32 42

4. 68 64 60

5. 62 52 42



What's happening in each of these sequences of numbers?
Can you explain the rule?

What are the next three numbers?
What is the rule?

1. 1, 6, 11, 16,

Rule:

2. 5, 9, 13, 17,

Rule:

3. 19, 29, 39, 49,

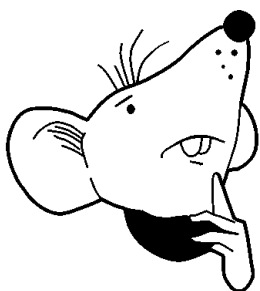
Rule:

4. 56, 51, 46, 41,

Rule:

5. 78, 74, 70, 66

Rule:



What's happening in each
of these sequences of
numbers?
Can you explain the rule?

What are the next three numbers?
What is the rule?

1. 7, 12, 17, 22,

Rule:

2. 39, 43, 47, 51,

Rule:

3. 57, 67, 77, 87,

Rule:

4. 62, 58, 54, 50,

Rule:

5. 74, 64, 54, 44

Rule:

Multiples

Can you remember what
multiple means?
Try these:



1. Put a ring round the numbers which are multiples of 2

13 132 99 55 66 16

2. Put a ring round the numbers which are multiples of 5

47 59 20 200 36 16

3. Put a ring round the numbers which are multiples of 10

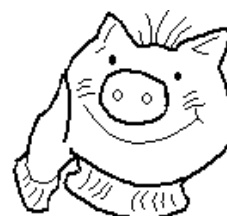
170 177 102 100 59 70

4. Put a ring round the numbers which are multiples of 100

349 300 199 200 450 600

Multiples

Can you remember what
multiple means?
Try these:



1. Put a ring round the numbers which are multiples of 2

17 141 88 11 100 101

2. Put a ring round the numbers which are multiples of 5

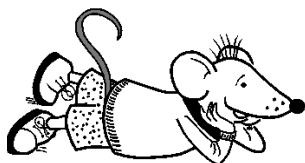
35 28 150 100 58 20

3. Put a ring round the numbers which are multiples of 10

169 170 101 90 50 89

4. Put a ring round the numbers which are multiples of 100

600 202 100 700 602 110



Tip!

Multiples of fifty end in
00 or 50

Colour the multiples of 50 red.

705

450

300

820

760

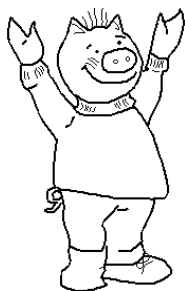
250

600

500

599

Write down 4 more multiples of 50:



Count up in fifties
from 250.
The best of luck!!

250









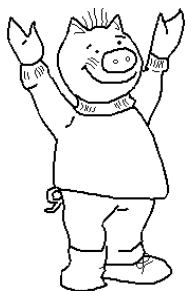












Count back in fifties
from 950.
Tricky, eh!

950



















Answers

Page 5

1. 16, 20 **2.** 37, 42 **3.** 35, 45 **4.** 36, 26 **5.** 44, 39

Page 6

1. 21, 25 **2.** 41, 46 **3.** 52, 62 **4.** 56, 52 **5.** 32, 22

Page 7

1. 21, 26, 31 (add 5) **2.** 21, 25, 29 (add 4) **3.** 59, 69, 79 (add 10)
4. 36, 31, 26 (subtract 5) **5.** 62, 58, 54 (subtract 4)

Page 8

1. 27, 32, 37 (add 5) **2.** 55, 59, 63 (add 4) **3.** 97, 107, 117 (add 10)
4. 46, 42, 38 (subtract 4) **5.** 34, 24, 14 (subtract 10)

Page 9

1. 132, 66, 16 **2.** 20, 200 **3.** 170, 100, 70 **4.** 300, 200, 600

Page 10

1. 88, 100 **2.** 35, 150, 100, 20 **3.** 170, 90, 50 **4.** 600, 100, 700

Page 11

450, 300, 250, 500, 600 coloured.

Page 12

250 - 300 - 350 - 400 - 450 - 500 - 550 - 600 - 650 - 700

Page 12

950 - 900 - 850 - 800 - 750 - 700 - 650 - 600 - 550 - 500