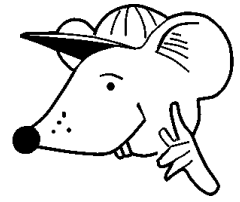


MATHEMATICS



N.S. Yr. 4 P.4

Add or subtract 1, 10, 100 or 1000

Equipment

Number lines are useful.
Calculator for page 14

MathSphere

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Concepts

In order for children to be really confident with handling numbers it is very important that they have a great deal of practice in counting forwards and backwards.

To re-inforce place value counting on and back in ones, tens, hundreds and thousands is especially worthwhile.

A number line is very useful in helping with this.

In the classroom or group situation children can be encouraged to count in turn and a 'best time' achieved - only do this when all have gained some confidence.

Below is a 1 - 1000 number 'square' which many children will find useful to refer to when counting in tens. It then continues past the thousand, which is the 'tricky' part!

10	20	30	40	50	60	70	80	90	100
110	120	130	140	150	160	170	180	190	200
210	220	230	240	250	260	270	280	290	300
310	320	330	340	350	360	370	380	390	400
410	420	430	440	450	460	470	480	490	500
510	520	530	540	550	560	570	580	590	600
610	620	630	640	650	660	670	680	690	700
710	720	730	740	750	760	770	780	790	800
810	820	830	840	850	860	870	880	890	900
910	920	930	940	950	960	970	980	990	1000

Then, carrying on in tens:

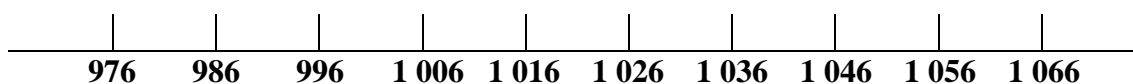
1 010	1 020	1 030	1 040	1 050	1 060	1 070	1 080	1 090	1 100
1 110	1 120	1 130	1 140	1 150	1 160	1 170	1 180	1 190	1 200
1 210	1 220	1 230	1 240	1 250	1 260	1 270	1 280	1 290	1 300

COUNTING AROUND THE THOUSANDS.

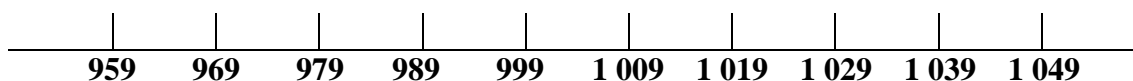
When counting up or down in tens or thousands it can get tricky either side of a thousand.

Look at the examples below and note that when adding tens the units always stay the same and when adding a hundred the tens and units always remain the same.

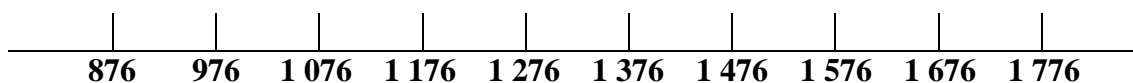
Eg counting in tens from 976



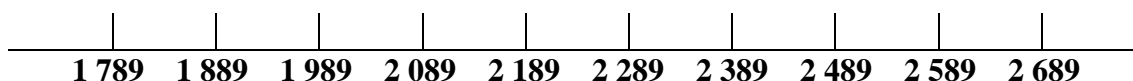
Counting in tens from 959



Counting in hundreds from 876



Counting in hundreds from 1 789



Have lots of goes at reading the above numbers out.

ADDING/SUBTRACTING - MORE THAN/ LESS THAN

Write down what is one more than:

- 1) 3 478 2) 5 467 3) 3 579 4) 2 699 5) 3 999
6) 2 001 7) 1 991 8) 2 749 9) 8 699 10) 2 999

Addy loves counting on really quickly:



One thousand, nine hundred and ninety eight, one thousand nine hundred and ninety nine, two thousand.....

Write down what is one less than:

- 11) 2 635 12) 5 434 13) 7 660 14) 5 200 15) 1 000
16) 4 875 17) 6 820 18) 3 700 19) 4 000 20) 7 000

ADDING/SUBTRACTING - MORE THAN/ LESS THAN

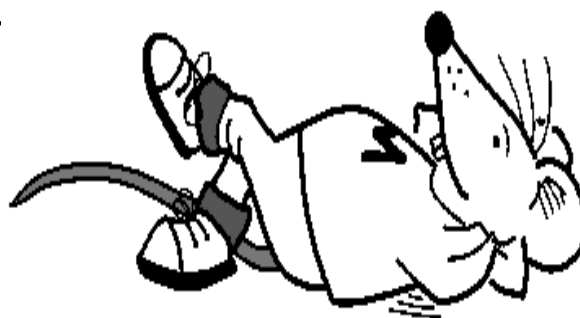
Write down what is **one more than**:

1) 4 589 2) 6 578 3) 4 629 4) 3 799 5) 4 999

6) 3 001 7) 2 882 8) 3 679 9) 9 599 10) 1 999

Subby is even quicker at counting down!

One thousand and one,
one thousand, nine
hundred and ninety
nine.....



Write down what is **one less than**:

11) 3 744 12) 6 545 13) 8 220 14) 4 100 15) 6 000

16) 5 984 17) 5 730 18) 2 600 19) 9 000 20) 2 000

ADDING/SUBTRACTING - MORE THAN/ LESS THAN

Counting in tens: one thousand nine hundred and eighty five, one thousand nine hundred and ninety five, two thousand and five, two thousand and fifteen....

Write down ten more than each of these numbers:

- 1) 1 829 2) 1 955 3) 4 690 4) 3 799 5) 3 999
6) 3 246 7) 5 722 8) 4 094 9) 6 991 10) 2 999

Five thousand and eleven, five thousand and one, four thousand nine hundred and ninety one....



What is TEN less than:

- 11) 2 983 12) 2 349 13) 4 320 14) 3 600 15) 4 001
16) 7 665 17) 4 295 18) 6 540 19) 2 900 20) 8 000

ADDING/SUBTRACTING - MORE THAN/ LESS THAN

Counting in tens: two thousand nine hundred and eighty six, two thousand nine hundred and ninety six, three thousand and six, three thousand and sixteen....

Write down ten more than these numbers:

1) 1 939 2) 1 845 3) 5 790 4) 4 199 5) 8 999

6) 3 336 7) 5 622 8) 1 098 9) 4 993 10) 4 999

Four thousand and twelve, four thousand and two, three thousand nine hundred and ninety two....



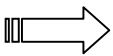
What is TEN less than:

11) 2 663 12) 2 449 13) 4 150 14) 2 300 15) 6 006

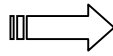
16) 7 885 17) 4 385 18) 2 120 19) 7 300 20) 7 000

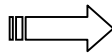
ADDING/SUBTRACTING - MORE THAN/ LESS THAN

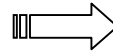
Make the following numbers 100 more and put the answer in the box:

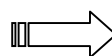
1. 6 500 

2. 4 444 

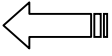
3. 6 350 

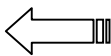
4. 5 974 

5. 4 999 

6. 2 901 

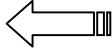
Make the following numbers 100 less and put the answer in the box:


7.  3 790

8.  2 987

9.  4 970

10.  5 090

11.  1 002

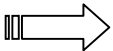
12.  6 023

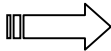
Count on in hundreds from 769:

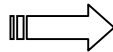
769	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
-----	---	----------------------	---	----------------------	---	----------------------

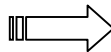
ADDING/SUBTRACTING - MORE THAN/ LESS THAN

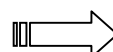
Make the following numbers 100 more and put the answer in the box:

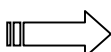
1. 7 329 

2. 5 555 


3. 2 790 

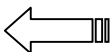
4. 4 795 

5. 3 980 

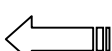
6. 5 912 

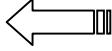
Make the following numbers 100 less and put the answer in the box:

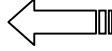
7.  4 680

8.  7 892

9.  3 922

10.  7 047

11.  4 005

12.  9 001

Count on in hundreds from 878:

878	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
-----	---	--	---	---	---	--

Counting on and counting back. Example:

Count on in ones, to 5 more than 248

248 → 249 → 250 → 251 → 252 → 253

1. Count on in ones, to 5 more than 679:

□ → □ → □ → □ → □ → □

2. Count on in tens, to 50 more than 679

679 → □ → □ → □ → □ → □

3. Count on in hundreds, to 500 more than 679

679 → □ → □ → □ → □ → □

4. Count on in thousands, to 5 000 more than 2 780

2780 → □ → □ → □ → □ → □

5. Count back in ones, to 5 less than 842

□ ← □ ← □ ← □ ← □ ← 842

6. Count back in tens, to 50 less than 842

□ ← □ ← □ ← □ ← □ ← 842

7. Count back in hundreds, to 500 less than 1 250

□ ← □ ← □ ← □ ← □ ← 1 250

Counting on in ones from 852 to 857:

852 → 853 → 854 → 855 → 856 → 857

1. Count on in ones from 874 to 879:

□ → □ → □ → □ → □ → □

2. Count on in tens from 460 to 510:

460 → □ → □ → □ → □ → □

3. Count on in hundreds from 768 to 1 268

768 → □ → □ → □ → □ → □

4. Count on in hundreds from 3 490 to 3 990:

3 490 → □ → □ → □ → □ → □

5. Count back in ones from 673 to 668:

□ ← □ ← □ ← □ ← □ ← 673

6. Count back in tens from 427 to 377:

□ ← □ ← □ ← □ ← □ ← 427

7. Count back in hundreds from 1 366 to 866

□ ← □ ← □ ← □ ← □ ← 1 366

1. Starting with 24, how many tens do you need to add to get to more than 100 ?
2. Starting with 67, how many tens do you need to add to get more than 100 ?
3. Starting with 136, how many tens do you need to add to get more than 200 ?
4. Starting with 345, how many tens do you need to add to get to more than 400 ?
5. Starting with 107, how many tens do you need to add to get to more than 200 ?

6. Count on in hundreds from 350 to 850. How many hundreds did you count?
7. Count on in hundreds from 460 to 760. How many hundreds did you count?
8. Count on in hundreds from 650 to 1 150. How many hundreds did you count?
9. Count on in hundreds from 475 to 1 475. How many hundreds did you count?
10. Count on in hundreds from 208 to 1 108. How many hundreds did you count?

11. Count back in tens from 768 to 728. How many tens did you count?
12. Count back in tens from 934 to 884. How many tens did you count?
13. Count back in tens from 1 106 to 1 006. How many tens did you count?
14. Count back in tens from 1 566 to 1 466. How many tens did you count?
15. Count back in tens from 2 105 to 1 985. How many tens did you count?

16. Count back in hundreds from 2 967 to 2 267. How many hundreds did you count?
17. Count back in hundreds from 2 756 to 2 156. How many hundreds did you count?
18. Count back in hundreds from 1 438 to 538. How many hundreds did you count?
19. Count back in hundreds from 7 980 to 5 780. How many hundreds did you count?
20. Count back in hundreds from 3 333 to 2 433. How many hundreds did you count?

1. Starting with 35, how many tens do you need to add to get to more than 100 ?
2. Starting with 56, how many tens do you need to add to get more than 100 ?
3. Starting with 129, how many tens do you need to add to get more than 200 ?
4. Starting with 456, how many tens do you need to add to get to more than 500 ?
5. Starting with 87, how many tens do you need to add to get to more than 200 ?

6. Count on in hundreds from 270 to 770. How many hundreds did you count?
7. Count on in hundreds from 180 to 680. How many hundreds did you count?
8. Count on in hundreds from 390 to 1 190. How many hundreds did you count?
9. Count on in hundreds from 285 to 1 385. How many hundreds did you count?
10. Count on in hundreds from 103 to 1 303. How many hundreds did you count?

11. Count back in tens from 954 to 914. How many tens did you count?
12. Count back in tens from 718 to 698. How many tens did you count?
13. Count back in tens from 1 406 to 1 386. How many tens did you count?
14. Count back in tens from 1 422 to 1 322. How many tens did you count?
15. Count back in tens from 2 207 to 1 987. How many tens did you count?

16. Count back in hundreds from 3 857 to 3 057. How many hundreds did you count?
17. Count back in hundreds from 1 944 to 1 144. How many hundreds did you count?
18. Count back in hundreds from 1 549 to 649. How many hundreds did you count?
19. Count back in hundreds from 6 078 to 5 378. How many hundreds did you count?
20. Count back in hundreds from 4 444 to 2 444. How many hundreds did you count?

1. Count on in thousands from 5 000 to 9 000.
How many thousands did you count?

2. Count on in thousands from 2 000 to 8 000.
How many thousands did you count?

3. Count on in thousands from 4 555 to 9 555.
How many thousands did you count?

4. Count on in thousands from 2 378 to 8 378.
How many thousands did you count?

You will need a calculator for this work.

5. Enter 3 456 in your calculator display.

Add 100. Keep adding 100 and watch what happens.

Note: many calculators can be made into an 'add 100 machine' by carrying out the following instructions:

Enter

100

+

+

=

Then enter the number eg

3 456

 and keep pressing

=

(Don't press anything else - no extra add signs or clear)

You should find that the numbers 3 556, 3 656, 3 756, 3 856 will come up.

6. Write down your own four digit number. Then put it on the calculator.

Add 100 to your own four digit number. Keep adding 100 and note what the effect is.

7. Now make your calculator a 'subtract 100 machine' in the same way.

Start with 2 345 and subtract 100. Write down the answers - can you see a pattern in the answers?

Answers**Page 4**

1. 3 479	2. 5 468	3. 3 580	4. 2 700	5. 4 000
6. 2 002	7. 1 992	8. 2 750	9. 8 700	10. 3 000
11. 2 634	12. 5 433	13. 7 659	14. 5 199	15. 999
16. 4 874	17. 6 819	18. 3 699	19. 3 999	20. 6 999

Page 5

1. 4 590	2. 6 579	3. 4 630	4. 3 800	5. 5 000
6. 3 002	7. 2 883	8. 3 680	9. 9 600	10. 2 000
11. 3 743	12. 6 544	13. 8 219	14. 4 099	15. 5 999
16. 5 983	17. 5 729	18. 2 599	19. 8 999	20. 1 999

Page 6

1. 1 839	2. 1 965	3. 4 700	4. 3 809	5. 4 009
6. 3 256	7. 5 732	8. 4 104	9. 7 001	10. 3 009
11. 2 973	12. 2 339	13. 4 310	14. 3 590	15. 3 991
16. 7 655	17. 4 285	18. 6 530	19. 2 890	20. 7 990

Page 7

1. 1 949	2. 1 855	3. 5 800	4. 4 209	5. 9 009
6. 3 346	7. 5 632	8. 1 108	9. 5 003	10. 5 009
11. 2 653	12. 2 439	13. 4 140	14. 2 290	15. 5 996
16. 7 875	17. 4 375	18. 2 110	19. 7 290	20. 6 990

Page 8

1. 6 600	2. 4 544	3. 6 450	4. 6 074	5. 5 099	6. 3 001
7. 3 690	8. 2 887	9. 4 870	10. 4 990	11. 902	12. 5 923
13. 769, 869, 969, 1 069					

Page 9

1. 7 429	2. 5 655	3. 2 890	4. 4 895	5. 4 080	6. 6 012
7. 4 580	8. 7 792	9. 3 822	10. 6 947	11. 3 905	12. 8 901
13. 878, 978, 1 078, 1 178					
14.					

Page 10

1. 679 - 680 - 681 - 682 - 683 - 684	2. 679 - 689 - 699 - 709 - 719 - 729
3. 679 - 779 - 879 - 979 - 1 079 - 1 179	4. 2 780 - 3780 - 4 780 - 5 780 - 6 780 - 7 780
5. 837 - 838 - 839 - 840 - 841 - 842	6. 792 - 802 - 812 - 822 - 832 - 842
7. 750 - 850 - 950 - 1 050 - 1 150 - 1 250	

Answers

Page 11

1. 874 - 875 - 876 - 877 - 878 - 879 2. 460 - 470 - 480 - 490 - 500 - 510
3. 768 - 868 - 968 - 1068 - 1168 - 1268 4. 3 490 - 3 590 - 3 690 - 3 790 - 3 890 - 3 990
5. 668 - 669 - 670 - 671 - 672 - 673 6. 377 - 387 - 397 - 407 - 417 - 427
7. 866 - 966 - 1066 - 1166 - 1266 - 1366

Page 12

1. 8 tens 2. 4 tens 3. 7 tens 4. 6 tens 5. 10 tens 6. 5 hundreds
7. 3 hundreds 8. 5 hundreds 9. 10 hundreds 10. 9 hundreds
11. 4 tens 12. 5 tens 13. 10 tens 14. 10 tens 15. 12 tens 16. 7 hundreds
17. 6 hundreds 18. 9 hundreds 19. 22 hundreds 20. 9 hundreds

Page 13

1. 7 tens 2. 5 tens 3. 8 tens 4. 5 tens 5. 12 tens 6. 5 hundreds
7. 5 hundreds 8. 8 hundreds 9. 11 hundreds 10. 12 hundreds
11. 4 tens 12. 2 tens 13. 2 tens 14. 10 tens 15. 22 tens 16. 8 hundreds
17. 8 hundreds 18. 9 hundreds 19. 7 hundreds 20. 20 hundreds

Page 14

1. 4 (thousands) 2. 6 (thousands) 3. 5 (thousands) 4. 6 (thousands)