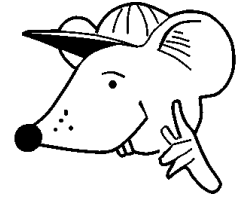


MATHEMATICS



N.S. Yr. 3 P.5

Counting in tens, odd and even numbers.

Equipment

Number line.

MathSphere

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Counting in tens

In Year 3 the work on counting in tens will cross the hundreds boundary. Again, a lot of oral work is necessary if children are to become confident with this and it will help a great deal with mental arithmetic if children can count up and down in tens from any starting point.

Having counted from one number to another it is a good idea to ask how many tens they have counted.

Counting in hundreds

Counting on and back in whole hundreds, up to 1 000, is also introduced in year 3.

Recognising odd and even numbers

In year 3 children will be expected to count in twos from 0 or from 1, up to 50 and then beyond this.

Counting down will also be encouraged.

Much work can still be done with cubes, counters etc, dividing into two sets and seeing which numbers divide equally.

Important rules concerned with odd and even numbers are introduced:

Odd + odd = even

Even + even = even

Odd + even = odd

Counting in tens

Fill the spaces,
counting in tens.

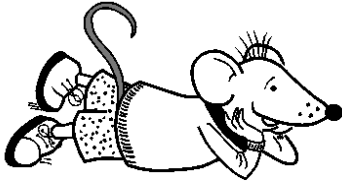


1.	70	80			
2.	100				
3.		100		120	
4.	50				
5.		160			
6.			280		

Counting in tens

Fill the spaces,
counting in tens

1.	80	90			
2.	110				
3.		250			
4.	300				
5.		180			
6.				200	

Counting back in tens

Now try counting
down in tens.

1. Count down in tens from 87 to 37.

87					37
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2. Count down in tens from 68.

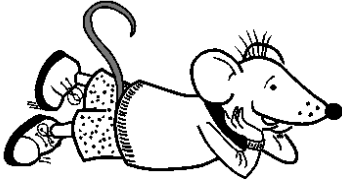
68					
----	--	--	--	--	--

3. Count down in tens from 92.

92					
----	--	--	--	--	--

4. Count down in tens from 77.

77					
----	--	--	--	--	--

Counting back in tens - more examples

Now try counting
down in tens from
these numbers:

1. Count down in tens from 81

81					
----	--	--	--	--	--

2. Count down in tens from 56

56					
----	--	--	--	--	--

3. Count down in tens from 72

72					
----	--	--	--	--	--

4. Count down in tens from 99.

99					
----	--	--	--	--	--

Counting up in tens crossing hundreds

1. Count on in tens from 178 to 208.
How many tens did you count?

2. Count on in tens from 116 to 206.
How many tens did you count?

3. Count on in tens from 272 to 352.
How many tens did you count?

4. Count on in tens from 189 to 239.
How many tens did you count?

5. Count on in tens from 605 to 665.
How many tens did you count?

6. Count on in tens from 169 to 269.
How many tens did you count?

Counting up in tens

Now try these:

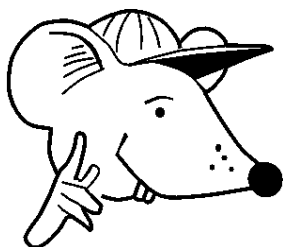
1. Count on in tens from 145 to 205.
How many tens did you count?

2. Count on in tens from 299 to 339.
How many tens did you count?

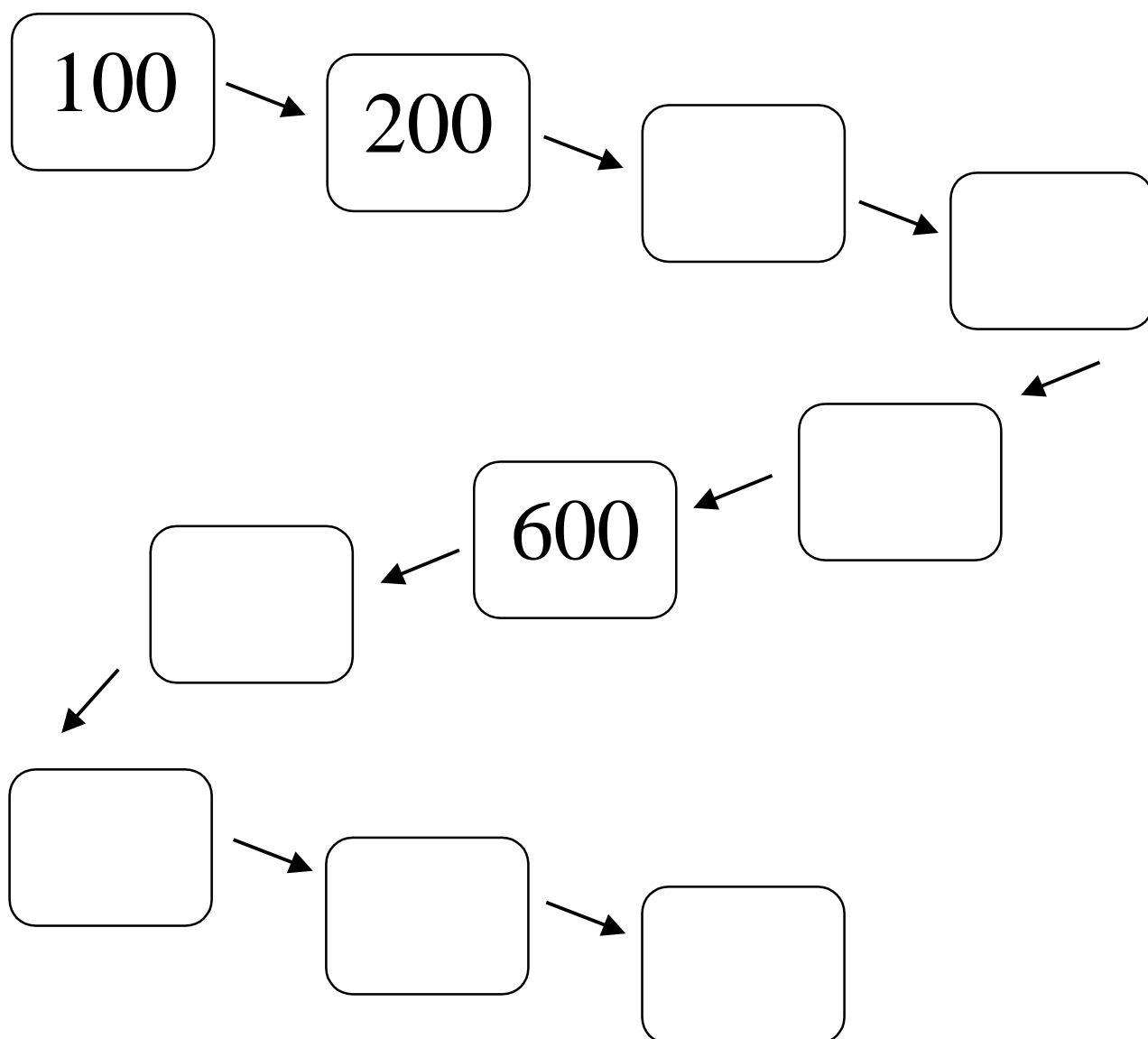
3. Count on in tens from 451 to 501.
How many tens did you count?

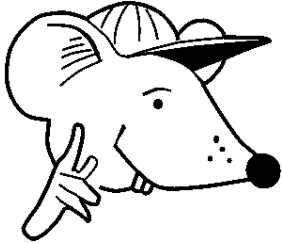
4. Count on in tens from 286 to 346.
How many tens did you count?

5. Count on in tens from 197 to 217.
How many tens did you count?

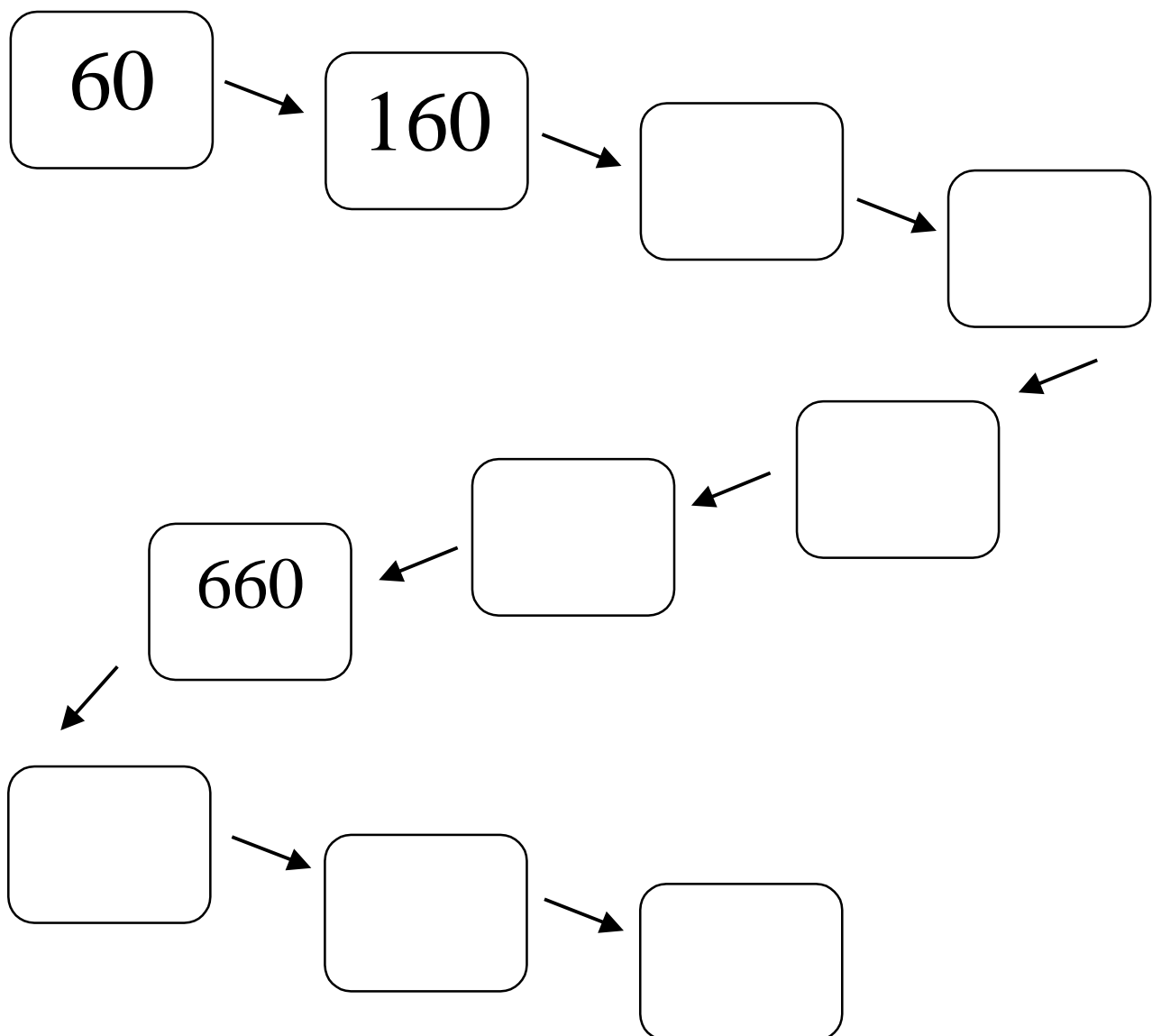
Counting in hundreds

Follow the arrows and count on in hundreds to the end.
What number do you end with?



Counting in hundreds

Now try counting on in hundreds from 60.
Follow the arrows.
What number do you end with?



Counting back in hundreds

1. Count back 400 from 760. What number do you reach?

2. Count back 300 from 440. What number do you reach?

3. Count back 400 from 920. What number do you reach?

4. Count back 500 from 880. What number do you reach?

5. Count back 700 from 910. What number do you reach?

6. Count back 200 from 440. What number do you reach?

7. Count back 700 from 830. What number do you reach?

8. Count back 300 from 750. What number do you reach?

Counting back in hundreds

1. Count back 200 from 380. What number do you reach?

2. Count back 400 from 940. What number do you reach?

3. Count back 500 from 660. What number do you reach?

4. Count back 600 from 870. What number do you reach?

5. Count back 500 from 670. What number do you reach?

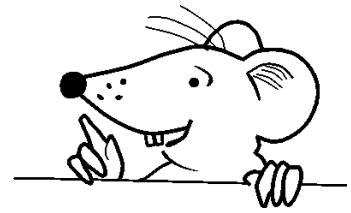
6. Count back 300 from 950. What number do you reach?

7. Count back 800 from 850. What number do you reach?

8. Count back 400 from 730. What number do you reach?

Remember, even numbers have
0, 2, 4, 6 or 8 in the units.

Odd numbers have 1, 3, 5, 7, or 9
In the units.



Continue these sequences of odd and even numbers:

1. 37, 39, 41, 43,

--	--	--	--

2. 78, 76, 74, 72,

--	--	--	--

3. 21, 23, 25, 27

--	--	--	--

4. 89, 91, 93, 95

--	--	--	--

5. 37, 35, 33, 31,

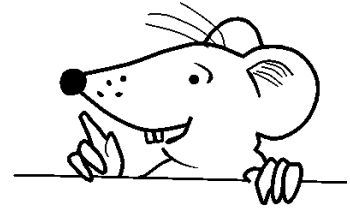
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6. 110, 108, 106, 104

--	--	--	--

Remember, even numbers have
0, 2, 4, 6 or 8 in the units.

Odd numbers have 1, 3, 5, 7, or 9
In the units.



Continue these sequences of odd and even numbers:

1. 63, 65, 67, 69,

--	--	--	--

2. 98, 96, 94, 92,

--	--	--	--

3. 31, 33, 35, 37,

--	--	--	--

4. 87, 85, 83, 81,

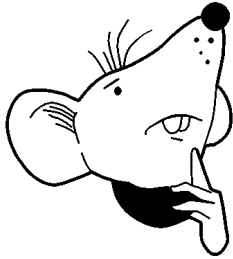
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5. 47, 49, 51, 53,

--	--	--	--

6. 109, 107, 105, 103,

--	--	--	--

Odd and even

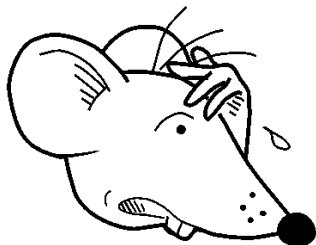
What happens when you add two even numbers together?

Try adding these pairs of even numbers. Write down the answer in the first box. Then write down whether the answer is odd or even.

Sum	Answer	Odd or even
1. $12 + 14 =$	<input type="text"/>	<input type="text"/>
2. $10 + 18 =$	<input type="text"/>	<input type="text"/>
3. $16 + 4 =$	<input type="text"/>	<input type="text"/>
4. $18 + 12 =$	<input type="text"/>	<input type="text"/>

What did you notice?

Odd and even

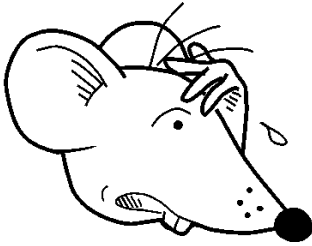


What happens when you add two odd numbers together?

Try adding these pairs of odd numbers. Write down the answer in the first box. Then write down whether the answer is odd or even.

Sum	Answer	Odd or even
3. $11 + 13 =$	<input type="text"/>	<input type="text"/>
4. $9 + 11 =$	<input type="text"/>	<input type="text"/>
3. $17 + 5 =$	<input type="text"/>	<input type="text"/>
4. $15 + 15 =$	<input type="text"/>	<input type="text"/>

What did you notice?

Odd and even

What happens when you add an even number to an odd number?

Try adding these pairs of odd and even numbers. Write down the answer in the first box. Then write down whether the answer is odd or even.

Sum	Answer	Odd or even
5. $14 + 13 =$	<input type="text"/>	<input type="text"/>
6. $8 + 15 =$	<input type="text"/>	<input type="text"/>
3. $16 + 7 =$	<input type="text"/>	<input type="text"/>
4. $10 + 19 =$	<input type="text"/>	<input type="text"/>

What did you notice?

Answers

Page 3

- | | | |
|-------------------------|----------------------------|----------------------------|
| 1. 70, 80, 90, 100, 110 | 2. 100, 110, 120, 130, 140 | 3. 90, 100, 110, 120, 130 |
| 4. 50, 60, 70, 80, 90 | 5. 150, 160, 170, 180, 190 | 6. 260, 270, 280, 290, 300 |

Page 4

- | | | |
|----------------------------|----------------------------|----------------------------|
| 1. 80, 90, 100, 110, 120 | 2. 110, 120, 130, 140, 150 | 3. 240, 250, 260, 270, 280 |
| 4. 300, 310, 320, 330, 340 | 5. 170, 180, 190, 200, 210 | 6. 170, 180, 190, 200, 210 |

Page 5

- | | |
|---------------------------|---------------------------|
| 1. 87, 77, 67, 57, 47, 37 | 2. 68, 58, 48, 38, 28, 18 |
| 3. 92, 82, 72, 62, 52, 42 | 4. 77, 67, 57, 47, 37, 27 |

Page 6

- | | |
|---------------------------|---------------------------|
| 1. 81, 71, 61, 51, 41, 31 | 2. 56, 46, 36, 26, 16, 6 |
| 3. 72, 62, 52, 42, 32, 22 | 4. 99, 89, 79, 69, 59, 49 |

Page 7

- | | | | | | |
|-----------|-----------|-----------|-----------|-----------|------------|
| 1. 3 tens | 2. 9 tens | 3. 8 tens | 4. 5 tens | 5. 6 tens | 6. 10 tens |
|-----------|-----------|-----------|-----------|-----------|------------|

Page 8

- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 1. 6 tens | 2. 4 tens | 3. 5 tens | 4. 6 tens | 5. 2 tens |
|-----------|-----------|-----------|-----------|-----------|

Page 9

1. 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000

Page 10

1. 60, 160, 260, 360, 460, 560, 660, 760, 860, 960

Page 11

1. 360 2. 140 3. 520 4. 380 5. 210 6. 240 7. 130 8. 450

Page 12

1. 180 2. 540 3. 160 4. 270 5. 170 6. 650 7. 50 8. 330

Page 13

- | | | |
|---------------------|-------------------|---------------------|
| 1. 45, 47, 49, 51 | 2. 70, 68, 66, 64 | 3. 29, 31, 33, 35 |
| 4. 97, 99, 101, 103 | 5. 29, 27, 25, 23 | 6. 102, 100, 98, 96 |

Answers

Page 14

- | | | |
|--------------------------|--------------------------|---------------------------|
| 1. 71, 73, 75, 77 | 2. 90, 88, 86, 84 | 3. 39, 41, 43, 45 |
| 4. 79, 77, 75, 73 | 5. 55, 57, 59, 61 | 6. 101, 99, 97, 95 |

Page 15

- 1.** 26 even **2.** 28 even **3.** 20 even **4.** 30 even - all even

Page 16

- 1.** 24 even **2.** 20 even **3.** 22 even **4.** 30 even - all even

Page 17

- 1.** 27 odd **2.** 23 odd **3.** 23 odd **4.** 29 odd - all odd