

## **MATHEMATICS**



## Y4 Addition and Subtraction 4260

Use known number facts and place value to add or subtract

### **Equipment**

Paper, pencil, ruler Number cards Stop clock

# MathSphere

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#### **Concepts**

In year 4 children are expected to be able to calculate mentally using a variety of methods. They are also expected to explain their methods, both orally and in writing.

The main skills involved are:

a. adding a single digit to a three or four digit number, crossing the tens boundary

b. subtracting a single digit from a three or four digit number, crossing the tens boundary

c. subtracting a single digit from a whole 100 or 1 000

d. find the difference between two numbers which are close to a whole thousand, but either side of it

e. find what needs to be added to a whole hundreds number to make it up to the next thousand

f. add or subtract any pair of two digit numbers

All methods used must be explained by the child, in words and writing.

#### Adding a single digit



Write the answers down to the sums below as quickly as you can - do not do any working out on paper.

Work out mentally the answers to the next set of sums. Next to each one write down the method you used to do it.

I added two to make 40 then counted on four more to make 544

**21**. 279 + 5 =

Explain:

**22**. 538 + 8 =

Explain:

Explain:

**23**. 175 + 6 =

Explain:

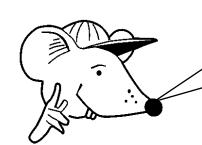
**24.** 429 + 8 =

Explain:

**25**. 377 + 6 =

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#### Adding a single digit



In your head, as fast as you can, answers only!

Go! Go! Go!

Work out mentally the answers to the next set of sums. Next to each one write down the method you used to do it.

I added three to make 190 then counted on three more to 193

Explain:

Explain:

Explain:

Explain:

Complete these questions by putting the correct number in the boxes.

Work out the next five answers. Write down how you did them.

I counted on 7 up to 270 and then added one more making plus 8.

**12.** 725 + = 733

Explain:

Explain:

Explain:

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Complete these questions by putting the correct number in the boxes.

Work out the next five answers. Write down how you did them.

I counted on 8 up to 380 and then added one more making 9.

**12.** 816 + = 824 Explain:

Explain:

Explain:

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#### Subtracting single digits from whole hundreds

Complete these questions by putting the correct number in the boxes.



On the next set of questions write down how you did the sum in your head.

9.	700 -	= 692

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#### Subtracting single digits from whole hundreds

Complete these questions by putting the correct number in the boxes.



On the next set of questions write down how you did the sum in your head.



#### **Subtraction crossing the hundreds boundary**

Write the answers in the boxes below to make the sums correct.

Now try these:

Well, I guess you are getting quite quick at these now. Explain how you did them to someone else - a friend, your teacher.. or me if you can't find anyone else!!



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#### **Subtraction crossing the hundreds boundary**

Write the answers in the boxes below to make the sums correct.

Now try these:

How did you do these?
I did most of them by adding.
Funny how so many subtraction sums can be done by adding.



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#### **Subtracting from thousands**

Without doing any working out on paper, write the answers to these sums:

Now you might find the next few a bit tricky - have a go anyway!



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#### Subtraction crossing the thousands boundary

Without doing any working out on paper, write the answers to these sums:

It's going to get harder now, especially for all you super brains!



#### <u>Subtracting from thousands - harder examples</u>



These look quite hard, but if you count on from the lower number, they suddenly become really easy!! Now, think how to do the next few sums....

..and the next ones. They look harder than they really are.



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#### **Subtracting from thousands - harder examples**



Try counting back for the next four sums, each time going down to the thousands below.

..and I would count on for these next six.



#### Add and subtract pairs of two digit numbers

Work these out mentally - write the answers down.

**6.** 
$$52 + 49 =$$



Why do bees hum? Because they've forgotten the words.

Half way through this page now!

#### Add and subtract pairs of two digit numbers

Work these out mentally - write the answers down.



What's the easiest way to count a large herd of cattle? Use a cowculator. You don't need one for these!

#### **Answers**

Page 3								
<b>1.</b> 441	<b>2.</b> 531	<b>3.</b> 741	<b>4.</b> 252	<b>5.</b> 353	<b>6.</b> 141	<b>7.</b> 692	<b>8.</b> 824	
<b>9.</b> 192	<b>10.</b> 251	<b>11.</b> 172	<b>12.</b> 541	<b>13.</b> 362	<b>14.</b> 720	<b>15.</b> 323	<b>16.</b> 331	
<b>17.</b> 358	<b>18.</b> 495	<b>19.</b> 202	<b>20.</b> 301	<b>21.</b> 284	<b>22.</b> 546	<b>23.</b> 181	<b>24.</b> 437	<b>25.</b> 383
Page 4		2.152					0 (0=	
1. 532	<b>2.</b> 621	<b>3.</b> 152	<b>4.</b> 171	<b>5.</b> 223	<b>6.</b> 151	<b>7.</b> 390	<b>8.</b> 627	
<b>9.</b> 285	<b>10.</b> 160	11. 252	<b>12.</b> 821	<b>13.</b> 740	<b>14.</b> 815	<b>15.</b> 190	<b>16.</b> 232	
<b>17.</b> 675	<b>18.</b> 785	<b>19.</b> 891	<b>20.</b> 793	<b>21.</b> 183	<b>22.</b> 397	<b>23.</b> 723	<b>24.</b> 553	<b>25.</b> 814
Page 5								
1. 424	<b>2.</b> 543	<b>3.</b> 7	<b>4.</b> 9	<b>5.</b> 338	<b>6.</b> 168	<b>7.</b> 452	<b>8.</b> 207	
<b>9.</b> 335	<b>10.</b> 592	11.8	<b>12.</b> 8	<b>13.</b> 606	<b>14.</b> 532	<b>15.</b> 541	with expl	anations.
Page 6							_	
1. 334	<b>2.</b> 651	<b>3.</b> 9	<b>4.</b> 9	<b>5.</b> 438	<b>6.</b> 258	<b>7.</b> 361	<b>8.</b> 315	_
<b>9.</b> 422	<b>10.</b> 702	<b>11.</b> 9	<b>12.</b> 8	<b>13.</b> 716	<b>14.</b> 643	<b>15.</b> 651	with expl	anations.
Page 7								
<b>1.</b> 193	<b>2.</b> 2		<b>3.</b> 695	4.	392	<b>5.</b> 4	.94	<b>6.</b> 791
<b>7.</b> 597	<b>8.</b> 9	3	<b>9.</b> 8	10.	6	<b>11.</b> 3	000	<b>12.</b> 700
Page 8								
1. 292	<b>2.</b> 3		<b>3.</b> 794		191	<b>5.</b> 5		<b>6.</b> 298
<b>7.</b> 499	<b>8.</b> 8	93	<b>9.</b> 7	10.	5	11. 2	200	<b>12.</b> 800
Page 9								
<b>1.</b> 198	<b>2.</b> 98	<b>3.</b> 795	<b>4.</b> 199	<b>5.</b> 599				898
<b>9.</b> 6	<b>10.</b> 6	11. 7	<b>12.</b> 8	<b>13.</b> 30	<b>14.</b> 6	01 <b>15.</b>	102 <b>16.</b>	705
Page 10	_	_						
1. 298	<b>2.</b> 197	<b>3.</b> 899	<b>4.</b> 299	<b>5.</b> 498				897
<b>9.</b> 9	<b>10.</b> 8	11.8	<b>12.</b> 8	<b>13.</b> 30 <sup>2</sup>	<b>14.</b> 5	02 15.	<b>16.</b>	306
Page 11								
<b>1.</b> 1 996	<b>2.</b> 2 992	<b>3.</b> 4 997	<b>4.</b> 5 993	<b>5.</b> 3 000				6 000
<b>9.</b> 9	<b>10.</b> 7	11. 3	<b>12.</b> 6	<b>13.</b> 4 995	<b>14.</b> 1 99	98 <b>15.</b> 3 9	997 16.	2 998
Page 12								
1.2 998	<b>2.</b> 3 999	<b>3.</b> 5 996	<b>4.</b> 7 995	<b>5.</b> 9 000	<b>6.</b> 3 00	<b>7.</b> 5 (	000 <b>8.</b>	6 000
<b>9.</b> 8	<b>10.</b> 6	11.2	<b>12.</b> 9	<b>13.</b> 3 998	<b>14.</b> 2 99	99 <b>15.</b> 6 9	007 16	5 999

#### **Answers**

Page 13							
1. 4	<b>2.</b> 5	<b>3.</b> 10	<b>4.</b> 6	<b>5.</b> 5	<b>6.</b> 3	<b>7.</b> 5 993	<b>8.</b> 3 997
<b>9.</b> 4 997	<b>10.</b> 1 997	<b>11.</b> 4 003	<b>12.</b> 6 006	<b>13.</b> 6 000	<b>14.</b> 2 002	<b>15.</b> 3 000	<b>16.</b> 7 001
Page 14							
<b>1.</b> 7	<b>2.</b> 7	<b>3.</b> 7	<b>4.</b> 6	<b>5.</b> 9	<b>6.</b> 5	<b>7.</b> 6 996	<b>8.</b> 4 995
<b>9.</b> 5 999	<b>10.</b> 2 997	<b>11.</b> 5 005	<b>12.</b> 5 004	<b>13.</b> 7 003	<b>14.</b> 1 002	<b>15.</b> 4 003	<b>16.</b> 6 001
Page 15							
1. 97	<b>2.</b> 88	<b>3.</b> 59	<b>4.</b> 62	<b>5.</b> 47	<b>6.</b> 101	<b>7.</b> 104	<b>8.</b> 89
<b>9.</b> 81	<b>10.</b> 92	<b>11.</b> 91	<b>12.</b> 118	<b>13.</b> 27	<b>14.</b> 16	<b>15.</b> 32	<b>16.</b> 13
<b>17.</b> 35	<b>18.</b> 7	<b>19.</b> 17	<b>20.</b> 27	<b>21.</b> 14	<b>22.</b> 13	<b>23.</b> 19	<b>24.</b> 14
Page 16							
<b>1.</b> 81	<b>2.</b> 88	<b>3.</b> 61	<b>4.</b> 82	<b>5.</b> 95	<b>6.</b> 119	<b>7.</b> 122	<b>8.</b> 121
<b>9.</b> 102	<b>10.</b> 109	<b>11.</b> 121	<b>12.</b> 91	<b>13.</b> 25	<b>14.</b> 7	<b>15.</b> 33	<b>16.</b> 19
<b>17.</b> 16	<b>18.</b> 18	<b>19.</b> 18	<b>20.</b> 69	<b>21.</b> 26	<b>22.</b> 19	<b>23.</b> 8	<b>24.</b> 30