



- 1) a) 2 000 000
- b) 9 000 000
- c) 3 000 000
- d) 4 000 000
- e) 6 000 000

2) a)

Numbers between 5.5 million and 6.5 million	Numbers between 550 000 and 650 000	Numbers between _____ and _____
<b>6 489 564</b>	<b>559 600</b>	
<b>6 299 956</b>	<b>599 600</b>	
<b>5 946 564</b>	<b>589 564</b>	
<b>5 642 956</b>	<b>649 560</b>	

- b) Rhys is incorrect because, if he uses this statement, the numbers between 5.5 million and 6.5 million would also need to be included in this column – but each number can only be written once.
- 3) Accept any correct statement, such as numbers greater than 6 500 000.
- 4) Kayla, Noel Bright, Rock On, Famous Dudes, Musical Stars

1) Emily is incorrect. The largest possible answer is 1 262 412, which would require one less counter.



2) a) Multiple answers possible. The digits must total 9 with no zeros.

Example answers:

3 111 111

1 211 112

1 311 111

2 121 111

b) True

Petra's number has 5 million, this is greater than Harjot's number which has only 3 million. Charlie's number has to be less than 5 million as the digits need to total 9 without zeros.

False

Charlie's number must be the smallest. As all the digits total 9, without a zero, the only digits in his number are 3, 2 or 1. If the 3 was the millions, then the hundred thousands would need to be a 1 or a 2, so it is smaller than Harjot's number.

3) The digit is a 3. If it was a 4 it would make this number greater than the previous number. If it was a 2 it would be smaller than the next number.



1) a)

Smallest Possible Number		Greatest Possible Number
<b>564 573</b>	$564\ 572 < \underline{\hspace{2cm}} < 565\ 572$	<b>565 571</b>
<b>1 344 125</b>	$1\ 346\ 125 > \underline{\hspace{2cm}} > 1\ 344\ 124$	<b>1 346 124</b>
<b>9 968 247</b>	$9\ 968\ 246 < \underline{\hspace{2cm}} < 9\ 978\ 246$	<b>9 978 245</b>

b) There are many possible answers. The numbers on either side of the empty box must have a difference of two.

2) There are various possible answers, for example,

- |              |              |
|--------------|--------------|
| a) 7 835 192 | b) 4 537 622 |
| 6 681 084    | 3 944 126    |
| 5 299 237    | 3 814 544    |
| 5 119 237    | 3 716 544    |
| 3 761 105    | 1 834 199    |



- 1) Put the following numbers into the calculations below to make them correct.  
You can only use each number once.

2 000 000

3 000 000

9 000 000

4 000 000

6 000 000

a) 2 843 275 > \_\_\_\_\_

d) 6 743 101 > \_\_\_\_\_ > 2 093 111

b) 6 129 043 < \_\_\_\_\_

e) 5 012 222 < \_\_\_\_\_ > 4 129 832

c) 2 509 232 < \_\_\_\_\_ < 4 137 432

- 2) a) Rhys must sort these numbers into the table below. Each number can only be used once. Can you help him sort as many of the numbers as possible into the first two columns of this table?

Numbers between 5.5 million and 6.5 million	Numbers between 550 000 and 650 000	Numbers between _____ and _____

559 600	589 564	5 946 564	6 299 956
6 489 564	6 549 000	5 642 956	599 600
6 501 956	649 560	7 199 000	5 449 000

- b) Rhys groups the remaining numbers into the final box with the following statement: **Numbers between 1 000 000 and 8 000 000**. Explain why Rhy's statement is **incorrect**.

\_\_\_\_\_

\_\_\_\_\_

- 3) What statement could be used as a heading for the final box?

\_\_\_\_\_

- 4) These bands and singers recorded their earnings for the first half of the year.

Noel Bright	Rock On	Musical Stars	Famous Dudes	Kayla
£4 543 000	Four and a half million pounds	£435 000	£534 999	£4 750 000

Put the earnings in descending order.

\_\_\_\_\_



- 1) Emily says that, in order to complete the empty place value chart with the greatest possible answer, she must use the same number of counters as the completed chart. Is she correct? Explain why.

M	HTh	TTh	Th	H	T	O
1	2	5	2	3	1	3

>

M	HTh	TTh	Th	H	T	O

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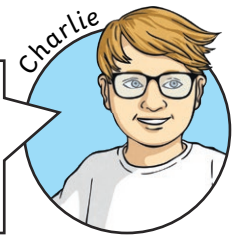
- 2) Harjot, Petra and Charlie are each thinking of a 7-digit number.



My number is 3 872 377.



My number has 5 millions.



The digits of my number total 9. There are no zeros in my number.

- a) Write 4 different numbers which Charlie could be thinking of.

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- b) For each statement, circle whether you think it is true, false or cannot tell. Explain your reasoning.

Petra has the greatest number.

True

False

Cannot tell

---

Harjot has the smallest number.

True

False

Cannot tell

---

- 3) These numbers have been ordered from greatest to smallest. One digit has been covered with a star. What is the digit? How do you know?

6 524 132

4 215 844

★ 361 294

2 831 462

---



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1) a) What are the greatest and smallest possible numbers that can be used in these comparisons?

Smallest Possible Number		Greatest Possible Number
	$564\ 572 < \underline{\hspace{2cm}} < 565\ 572$	
	$1\ 346\ 125 > \underline{\hspace{2cm}} > 1\ 344\ 124$	
	$9\ 968\ 246 < \underline{\hspace{2cm}} < 9\ 978\ 246$	

b) Write a calculation where the smallest possible answer and the greatest possible answer are the same.

\_\_\_\_\_

2) A set of numbers have been ordered vertically from greatest to smallest. Write a digit in each box so that the numbers are written in order.

- a)  835 192  
6  81 084  
5  99 237  
5 1  9 237  
 761 105

- b) 4  37 622  
 944 126  
3 81  544  
3  16 544  
 834 199

- 1) Put the following numbers into the calculations below to make them correct. You can only use each number once.



2 000 000      9 000 000      6 000 000  
3 000 000      4 000 000

- a)  $2\,843\,275 > \underline{\hspace{2cm}}$   
b)  $6\,129\,043 < \underline{\hspace{2cm}}$   
c)  $2\,509\,232 < \underline{\hspace{2cm}} < 4\,137\,432$   
d)  $6\,743\,101 > \underline{\hspace{2cm}} > 2\,093\,111$   
e)  $5\,012\,222 < \underline{\hspace{2cm}} > 4\,129\,832$

- 2) a) Rhys must sort these numbers into the table below. Each number can only be used once. Can you help him sort as many of the numbers as possible into the first two columns of this table?

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_____	_____	_____
_____	_____	_____

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6 299 956	599 600	5 449 000
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- b) Rhys groups the remaining numbers into the final box with the following statement: **Numbers between 1 000 000 and 8 000 000**. Explain why Rhy's statement is **incorrect**.

- 3) What statement could be used as a heading for the final box?

- 4) These bands and singers recorded their earnings for the first half of the year.

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£4 543 000	Four and a half million pounds	£435 000

Famous Dudes	Kayla
£534 999	£4 750 000

Put the earnings in descending order.

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M	HTh	TTh	Th	H	T	O
○	○ ○	○○ ○○ ○○	○○	○○ ○○	○	○○ ○

>

M	HTh	TTh	Th	H	T	O

- 2) Harjot, Petra and Charlie are each thinking of a 7-digit number.

Harjot: My number is 3 872 377.

Petra: My number has 5 millions.

Charlie: The digits of my number total 9. There are no zeros in my number.

- a) Write 4 different numbers which Charlie could be thinking of.
- b) For each statement, circle whether you think it is true, false or cannot tell. Explain your reasoning.

Petra has the greatest number.

True      False      Cannot tell

Harjot has the smallest number.

True      False      Cannot tell

- 3) These numbers have been ordered from greatest to smallest. One digit has been covered with a star. What is the digit? How do you know?

6 524 132

4 215 844

★ 361 294

2 831 462

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M	HTh	TTh	Th	H	T	O
○	○ ○	○○ ○○ ○○	○○	○○ ○○	○	○○ ○

>

M	HTh	TTh	Th	H	T	O

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True      False      Cannot tell

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True      False      Cannot tell

- 3) These numbers have been ordered from greatest to smallest. One digit has been covered with a star. What is the digit? How do you know?

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1) a) What are the greatest and smallest possible numbers that can be used in these comparisons?



Smallest Possible Number		Greatest Possible Number
	$564\ 572 < \underline{\quad} < 565\ 572$	
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	$9\ 968\ 246 < \underline{\quad} < 9\ 978\ 246$	

b) Write a calculation where the smallest possible answer and the greatest possible answer are the same.

2) A set of numbers have been ordered vertically from greatest to smallest. Write a digit in each box so that the numbers are written in order.

a)

□	835 192
6 □	81 084
5 □	99 237
5 1 □	9 237
□	761 105

b)

4 □	37 622
□	944 126
3 81 □	544
3 □	16 544
□	834 199

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5 1 □	9 237
□	761 105

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4 □	37 622
□	944 126
3 81 □	544
3 □	16 544
□	834 199



Ones	Tens	Hundreds	Thousands	Ten Thousands	Hundred Thousands	Millions	Ten millions

To compare and order numbers up to 10 000 000.

## Place Value Grid

## Place Value Grid

To compare and order numbers up to 10 000 000.







Ten millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

# Song Stars

To compare and order numbers up to 10 000 000.



This table shows the earnings of six bands and singers.

<b>Noel Bright</b> 	<b>Rock On</b> 	<b>Ceilidh</b> 
£2 987 300	£1 357 150	£97 600
<b>Bethany</b> 	<b>Musical Stars</b> 	<b>Famous Dudes</b> 
£1 573 840	£175 390	£1 372 600

1. Use either  $<$  or  $>$  to compare the earnings of these artists.

Noel Bright		Rock On
Musical Stars		Ceilidh
Famous Dudes		Bethany
Musical Stars		Noel Bright
Famous Dudes		Rock On

2. Write the names of all the bands which would make these statements true:

a		$< \text{£}1\,300\,000$
b		$> \text{£}1\,500\,000$

Can you list the bands and singers in order from lowest earnings to highest earnings?

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# Song Stars Answers

1.

Noel Bright	>	Rock On
Musical Stars	>	Ceilidh
Famous Dudes	<	Bethany
Musical Stars	<	Noel Bright
Famous Dudes	>	Rock On

2.

a	<b>Ceilidh, Musical Stars.</b>	< £1 300 000
b	<b>Noel Bright, Bethany</b>	> £1 500 000







3. **Ceilidh, Musical Stars, Rock On, Famous Dudes, Bethany, Noel Bright**

# Song Stars

To compare and order numbers up to 10 000 000.



This table shows the earnings of six bands and singers.

<b>Noel Bright</b> 	<b>Rock On</b> 	<b>Ceilidh</b> 
£9 873 591	£3 572 508	£957 648
<b>Bethany</b> 	<b>Musical Stars</b> 	<b>Famous Dudes</b> 
£5 738 400	£75 399	£372 600

1. Tick the statements which are correct about the artists' earnings:

- Noel Bright > £9 000 000
- Rock On > Bethany
- £1 000 000 > Ceilidh
- Musical Stars > Famous Dudes > Ceilidh
- Noel Bright > Famous Dudes < Rock On

2. Write the names of all the bands which would make this statement true:

	<	£1 000 000	>	
--	---	------------	---	--

3. Can you list the bands and singers in order from lowest earnings to highest earnings?

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# Song Stars Answers

1.

- Noel Bright > £9 000 000
- Rock On > Bethany
- £1 000 000 > Ceilidh
- Musical Stars > Famous Dudes > Ceilidh
- Noel Bright > Famous Dudes < Rock On

2.

<b>Ceilidh, Musical Stars, Famous Dudes</b>	<	£1 000 000	>	<b>Noel Bright, Rock On, Bethany</b>
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3. **Musical Stars, Famous Dudes, Ceilidh, Rock On, Bethany, Noel Bright**

# Song Stars

To compare and order numbers up to 10 000 000.



This table shows the earnings of six bands and singers.

<p><b>Noel Bright</b></p> 	<p><b>Rock On</b></p> 	<p><b>Ceilidh</b></p> 
£9 873 591	£3 572 508	£9 875 201
<p><b>Bethany</b></p> 	<p><b>Musical Stars</b></p> 	<p><b>Famous Dudes</b></p> 
£5 738 400	£5 398 644	£375 499

1. Add a band name in each empty box to make the statement true.

	<	£1 000 000	<		<	£4 800 000
--	---	------------	---	--	---	------------

	>	£6 000 000	<		<	£4 000 000
--	---	------------	---	--	---	------------

	<	£3 700 000	<		>	£7 550 000
--	---	------------	---	--	---	------------

2. For each comparison statement, use all the digit cards to make the statement true.

0	1	1	2	4	5	5
---	---	---	---	---	---	---

Bethany	>	£	
---------	---	---	--

Musical Stars	<	£	
---------------	---	---	--

Rock On	<	£		>	Musical Stars	
---------	---	---	--	---	---------------	--

3. Create your own band or a singer whose earnings would fit in this number sentence. Write their earnings in digits and words.

£9 873 591 >  < £9 875 201

<b>Name:</b>
<b>Earnings:</b>

4. Including your new band, list the bands in order from lowest earning to highest earnings.

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# Song Stars Answers

1.

<b>Famous Dudes</b>	<	£1 000 000	<	<b>Rock On</b>	<	£4 800 000
<b>Noel Bright or Ceilidh</b>	>	£6 000 000	<	<b>Bethany or Musical Stars</b>	<	£4 000 000
<b>Rock On or Famous Dudes</b>	<	£3 700 000	<	<b>Ceilidh or Noel Bright</b>	>	£7 550 000

2. Multiple answers possible. Examples include:

Bethany	>	<b>£1 542 150</b>
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Musical Stars	<	<b>£5 450 112</b>
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Rock On	<	<b>£5 542 011</b>	>	Musical Stars
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3. £9 873 591 > **£5 568 522** < £9 875 201

4. Famous Dudes, Rock On, Musical Stars, Bethany, Noel Bright, own band's name, Ceilidh