

# RECALL

What's the same and what is different about these numbers?

**SAME VS.  
DIFFERENT**

320,541

230,541

*help*



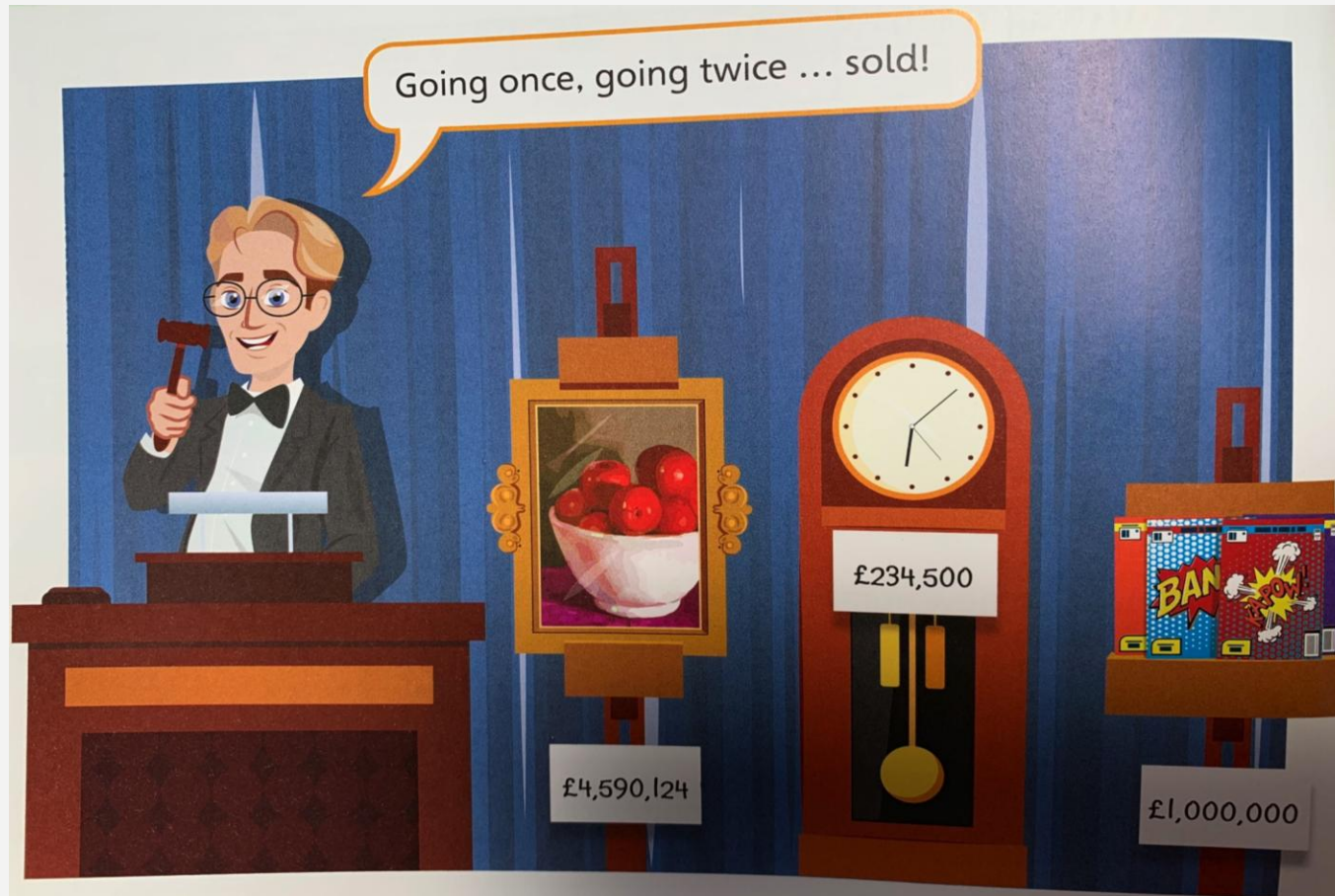
Use a place value chart to help you

How many facts can you tell me about those numbers

## L.O. TO READ, WRITE, ORDER AND COMPARE NUMBERS UP TO 10 MILLION AND DETERMINE THE VALUE OF EACH DIGIT

- **SOME WILL EVEN:** Identify a specific number which matches given statements.
- **SOME WILL:** Identify 10/100/1000/10,000 more or less than.
- **MOST WILL:** Write specific numbers in numerals and words.
- **ALL WILL:** Identify the place value of each digit in a number.

# GUIDED PRACTICE - MY TURN



a) Write the sale prices of the painting and the clock on place value grids. Use the grids to help you to write the numbers in words.

b) The comic books sold for one million pounds. How many 100,000s are in one million?

*help*

Use a place value chart to help you write and say the numbers.



Mrs Silk bought the painting but managed to negotiate a discount of £1000 and then another discount of £20. How much did she actually pay for it?

# GUIDED PRACTICE - YOUR TURN



a) Write the sale prices of the painting and the clock on place value grids. Use the grids to help you to write the numbers in words.

b) The comic books sold for three million pounds. How many 100,000s are in three million?

*help*

Use a place value chart to help you write and say the numbers.

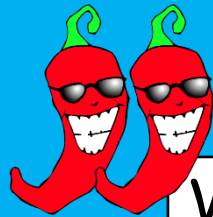


Miss Curry bought the painting but managed to negotiate a discount of £10,000 and then another discount of £10. How much did she actually pay for it?



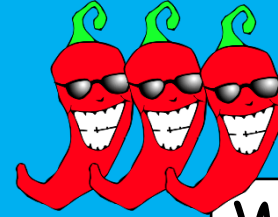
Write these numbers as words.

600,000  
700,000  
800,000  
900,000  
1,000,000



Write these numbers as words.

123,000  
565,000  
1,350,000  
3,075,000  
5,009,000



Write these numbers as words.

1,000,560  
7,000,045  
5,000,005  
4,392,593  
9,204,103



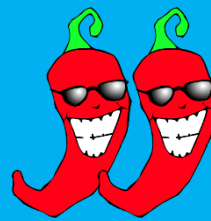
Choose three numbers and draw place value pyramids.

4,392,593  
4,000,000  
300,000  
90,000  
2,000  
500  
90  
3



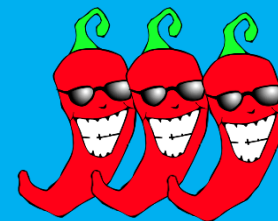
Write these numbers as words.

- Six hundred thousand
- Seven hundred thousand
- Eight hundred thousand
- Nine hundred thousand
- One million



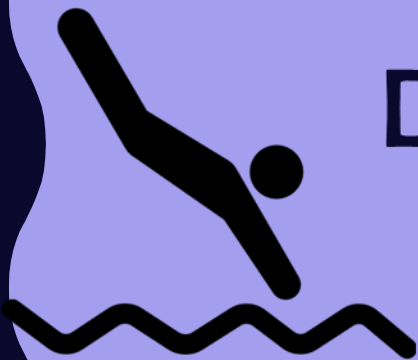
Write these numbers as words.

- One hundred twenty-three thousand
- Five hundred and sixty five thousand.
- One million, three hundred and fifty thousand
- Three million and seventy-five thousand
- Five million and nine thousand



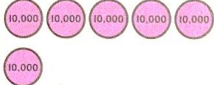
Write these numbers as words.

- One million, five hundred and sixty
- Seven million and forty-five
- Five million and five
- Four million, three hundred and ninety-two thousand, five hundred and ninety-three
- Nine million, two hundred and four thousand, one hundred and three



# DIVE DEEPER 1

1. Dave thinks that there are 2 100,000s in 1,200,000. Is he correct? Prove it!

| M | HTh                                                                                | TTh                                                                                 | Th                                                                                  | H                                                                                   | T | O                                                                                   |
|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
|   |  |  |  |  |   |  |

2. Write the number shown in numerals and words.

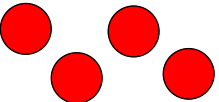
3. Lee is making numbers using counters on a place value grid.

a) What number has Lee made?

b) Which of the following numbers can Lee make using all 12 counters?

1,304,220      472,000      725,

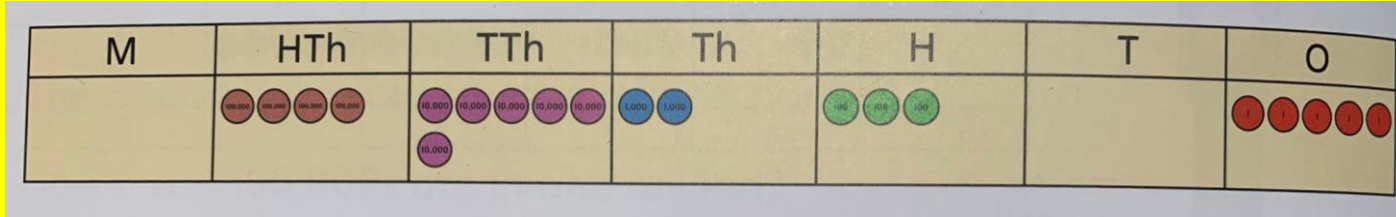
30      5,502      1,304,202

| M                                                                                   | HTh                                                                                 | TTh                                                                                 | Th                                                                                    | H                                                                                     | T | O                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------|
|  |  |  |  |  |   |  |

# DIVE DEEPER ANSWERS



1. Dave thinks that there are 2 100,000s in 1,200,000.  
Is he correct? Prove it! **He is correct but there is also 12 100,000s**



2. Write the number shown in numerals and words.  
**462,305**      **four hundred and sixty-two thousand, three hundred and five**

3. Lee is making numbers using counters on a place value grid.

a) What number has Lee made? **2,411,301**

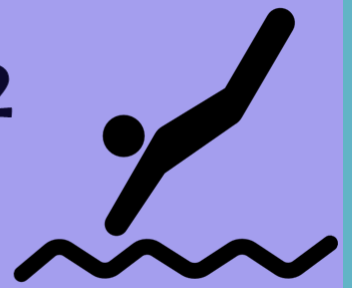
b) Which of the following numbers can Lee make using all 12 counters?

**1,304,220**      472,000      725,

30      **5,502**      **1,304,202**

| M              | HTh            | TTh           | Th            | H              | T | O             |
|----------------|----------------|---------------|---------------|----------------|---|---------------|
| 2 red counters | 4 red counters | 1 red counter | 1 red counter | 3 red counters |   | 1 red counter |

## DIVE DEEPER 2



4. Draw counters on the place value grids to show 6,146,005

| M | HTh | TTh | Th | H | T | O |
|---|-----|-----|----|---|---|---|
|   |     |     |    |   |   |   |

5. Write each number in numerals.

- a) One million, eighty-four thousand, three hundred
- b) Two million, two hundred and two thousand and two
- c) Ninety-two thousand and ninety-two

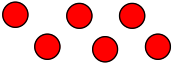
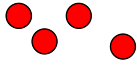
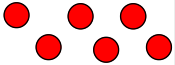
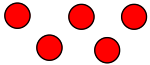
6. Write a number less than ten million that has:

- 6 as the first and last digits
- 43 thousands
- 5 hundreds
- No 10s



7. Danny says you can tell if a number is odd or even just by knowing one of the digits.  
Is Danny correct?  
Explain your answer.

4. Draw counters on the place value grids to show 6,146,005

| M                                                                                 | HTh                                                                               | TTh                                                                               | Th                                                                                  | H | T | O                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|-------------------------------------------------------------------------------------|
|  |  |  |  |   |   |  |

5. Write each number in numerals.

- a) One million, eighty-four thousand, three hundred     1,084,300  
b) Two million, two hundred and two thousand and two     2,202,002  
c) Ninety-two thousand and ninety-two     92,092

6. Write a number less than ten million that has:

- 6 as the first and last digits
- 43 thousands
- 5 hundreds
- No 10s

643,506

How many possibilities did you find?

7. Danny says you can tell if a number is odd or even just by knowing one of the digits.

Is Danny correct?

Explain your answer. I agree, you can tell if it is odd or even by looking just at the ones digit



# Space Distances



In the picture below you can see the orbits of Mercury, Venus, Earth (this label is slightly hidden) and Mars, along with the orbit of an asteroid called Florence (named after Florence Nightingale).

The picture shows their positions in August 2017. Florence was at its nearest position to Earth at the start of September 2017.

Florence's distance from the Sun varies from 150 000 000km at its nearest (during summer 2017) to 375 000 000km when furthest away.

Starting when Florence is nearest to the sun, what distance will it be from the Sun after travelling...

- 1) 100 km further from the Sun?
- 2) 1 000 km further from the Sun?
- 3) 10 000 km further from the Sun?
- 4) 100 000 km further from the Sun?
- 5) 1 000 000 km further from the Sun?

Starting with Florence furthest from the sun, what distance will it be from the Sun after travelling...

- 6) 100 km nearer the Sun?
- 7) 1 000 km nearer the Sun?
- 8) 10 000 km nearer the Sun?
- 9) 100 000 km nearer the Sun?
- 10) 1 000 000 km nearer the Sun?

