Answers

1) 124 025

2)	HTh	TTh	Th	н	т	0
	•				•	

3) Accept any two missing parts that total 2800. For example:

2000 and 800 or 1000 and 1800

4) a) 30 000

b) 300 000

c) 3000

d) 3

e) 30

f) 300

1) No because there should be zero placeholders (and no counters) in the ten thousands and hundreds columns. There should be three counters in the thousands column, four counters in the tens column and one counter in the ones column.

2) Zeke is incorrect. The missing number in the first statement is 8000 but the missing number in the second statement is 80 000.

3) α)		hundred thousands digit is odd	hundred thousands digit is even
	ten	573 602	816 502
	thousands	101 004	795 032
	digit is odd	<b>795 032</b>	870 517
	ten	428 608	870 517
	thousands	701 923	288 041
	digit is even	<b>101 004</b>	<b>428 608</b>

b) Open-ended question so answers will vary.

1) There are many possible answers. For example:

501 110, 530 000, 222 002, 100 340

2)

a) 970 000, 860 000, 750 000, 640 000, 530 000, 420 000, 310 000, 201 000, 200 100, 200 010, 200 001

3) Open-ended question so answers will vary.





1) What number is represented on the place value chart?

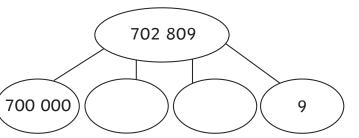
Thousands				Ones	
HTh	TTh	Th	н	Т	0
•					

- 2) Represent these numbers with counters on the place value chart.
- a) two hundred and three thousand, five hundred and thirty

**b)** nine hundred and sixty thousand and fifty-one

- HTh
   TTh
   Th
   H
   T
   O

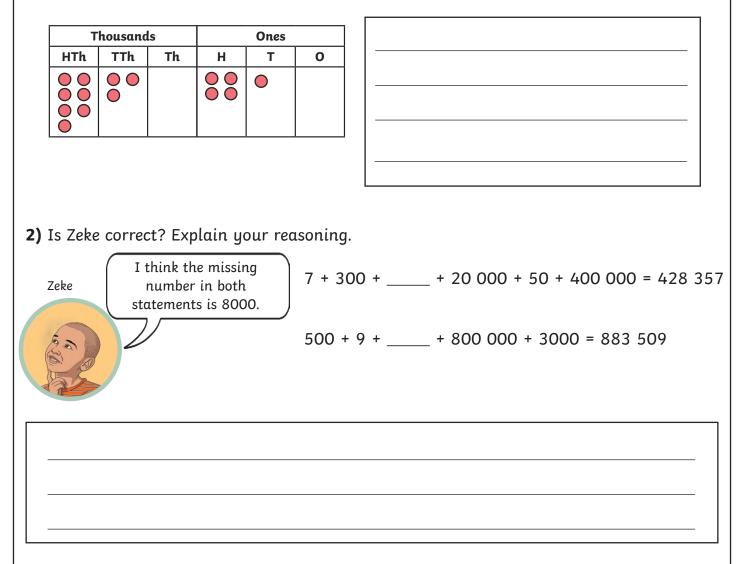
   Image: Image of the state of the s
- **3)** Complete the part-whole model.



- 4) What is the value of the digit 3 in each of these numbers?
- **α)** 437 902 \_\_\_\_\_
- **b)** 302 791 \_\_\_\_\_
- **c)** 803 102 \_\_\_\_\_
- **d)** 980 123 \_\_\_\_\_
- e) 201 530 \_\_\_\_\_
- **f)** 400 368 \_\_\_\_\_



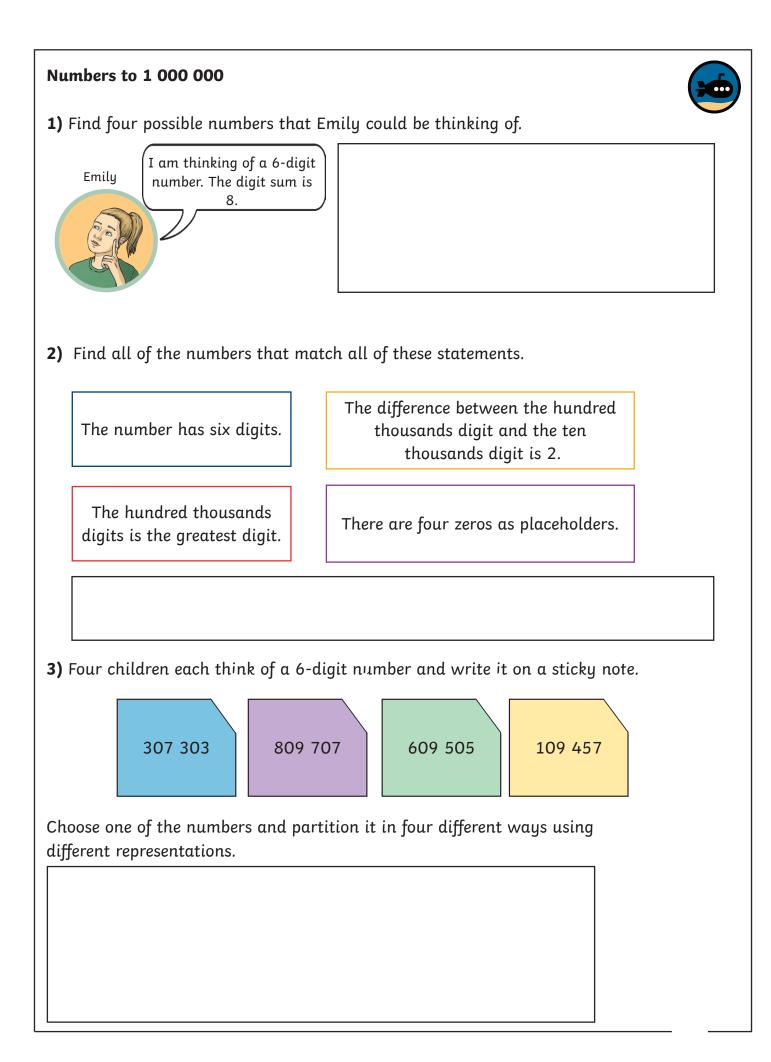
1) Is the number 703 041 represented correctly on the place value chart? Explain your reasoning.



3) a) Circle the numbers that have been sorted incorrectly on the Carroll diagram and then write them in the correct places.

	hundred thousands digit is odd	hundred thousands digit is even
ten thousands digit is odd	573 602 101 004	816 502 795 032
ten thousands digit is even	428 608 701 923	870 517 288 041

**b)** Choose three of your own 6-digit numbers and write them in the correct place on the Carroll diagram.



## **Diving into Mastery**

100

0

(0 )

# 1 000 000 10 000

1 000 000

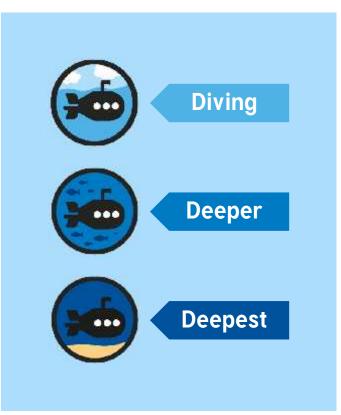
100 1 000 000

10

## Numbers to 1 000 000

## **Diving into Mastery Guidance for Educators**

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

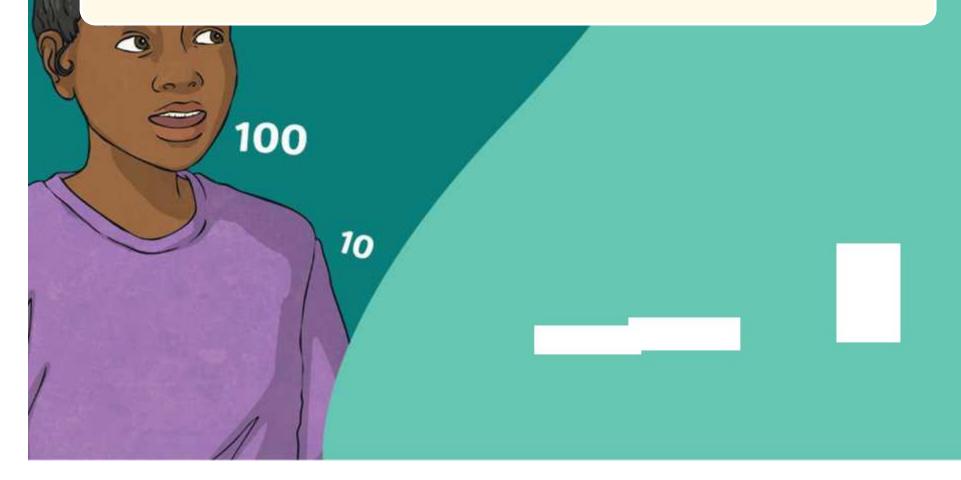


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

## Aim

• Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.



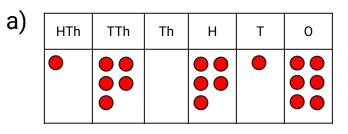
J.

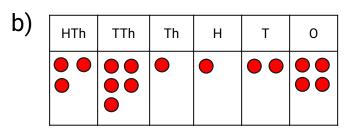
c)



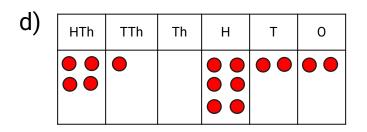


## Write the number represented on each place value chart.



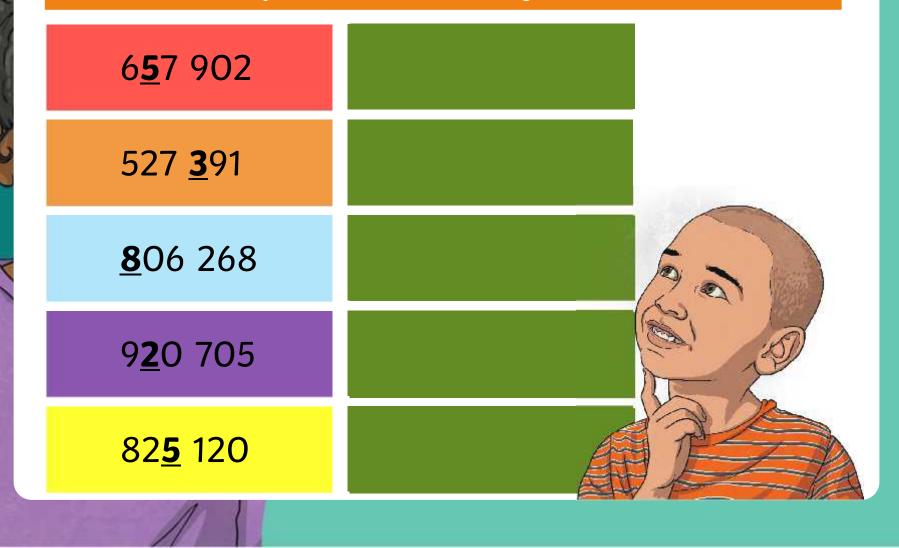


HTh TTh Th H T O



Numbers to 1 000 000 Diving

## What is the value of the bold, underlined digit in each number?



Numbers to 1 000 000 D

Deeper





Zeke

I think the missing number in both statements is 90 000.

Is Zeke correct? Explain your reasoning.

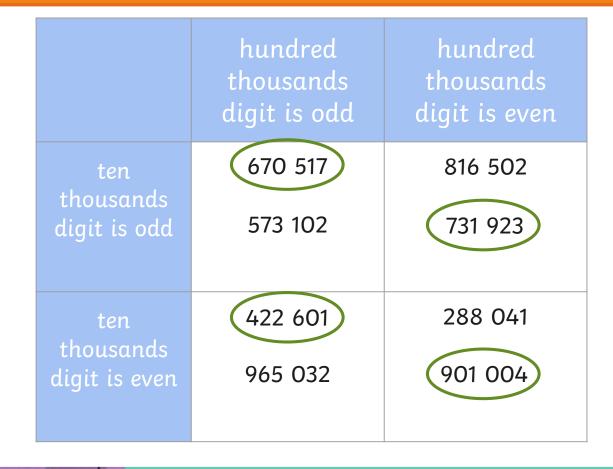
7 + 100 + 6000 + \_\_\_\_\_ + 50 + 400 000 = 496 157

500 + 9 + \_\_\_\_\_ + 6000 = 960 509





Which numbers have been sorted incorrectly on the Carroll diagram? Where should they go?



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Deepest

Here are four 6-digit numbers written on sticky notes.

697 391	903 286	400 568	294 050

Choose one of the numbers and partition it in four different ways using different representations.

You could use part-whole models, bar models or place value charts.

## Dive in by completing your own activity!

Numbers to 1 090 009 1) What tumber is repr interest into The	Reambers to 1 000 000 1) (Abst hamber is represented on the aloos value chert* Theorem of the second on the aloos value chert* Theorem of the second on t
I) "apresent these man: a) two handred and the and thurky	2) Represent three numbers with counters on the place value that: a) two investigations and three thousand, five numbed and thirty
<ul> <li>a) time hundred and as</li> <li>a) Samplete the part w.</li> </ul>	b) size hardest and size its used and fifty are
<ul> <li>4) What is the value of</li> <li>4) 437 902</li> <li>4) 312 791</li> </ul>	4) What is the value of the digt: 3 in each of these numbers? a) has roue b) 302 TeL c) 407 102
e) 803 102 e) 983 125 e) 933 125 f) 403 136	a) 380.223 a) 201.530 f) 400.364

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**Diving into Mastery** 

100

0

(0 )

## 1 000 000 *1*0

1 000 000

100 1 000 000

10



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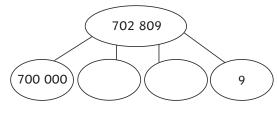
1) What number is represented on the place value chart?

Thousands			Ones		
HTh	TTh	Th	н	т	0
•					

- 2) Represent these numbers with counters on the place value chart.
- a) two hundred and three thousand, five hundred and thirty
- **b)** nine hundred and sixty thousand and fifty-one

HTh	TTh	Th	н	т	0

3) Complete the part-whole model.



## **4)** What is the value of the digit 3 in each of these numbers?

**f)** 400 368

#### Numbers to 1 000 000

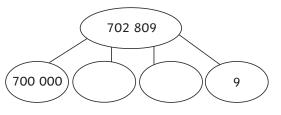
- ce 🐱
- What number is represented on the place value chart?
   Thousands
   Ones

Thousands				Ones	
HTh	TTh	Th	Н	Т	0

- 2) Represent these numbers with counters on the place value chart.
- a) two hundred and three thousand, five hundred and thirty
- **b)** nine hundred and sixty thousand and fifty-one

HTh	TTh	Th	н	Т	0

3) Complete the part-whole model.



**4)** What is the value of the digit 3 in each of these numbers?

**a)** 437 902

**b)** 302 791

**c)** 803 102

**d)** 980 123

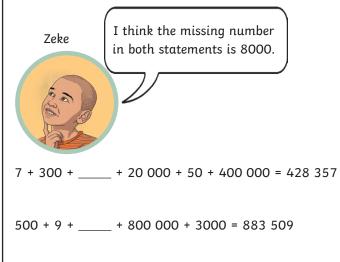
**e)** 201 530

**f)** 400 368

1) Is the number 703 041 represented correctly on the place value chart? Explain your reasoning.

Thousands			Ones		
HTh	TTh	Th	н	т	0
	00			•	

#### 2) Is Zeke correct? Explain your reasoning.



3) a) Circle the numbers that have been sorted incorrectly on the Carroll diagram and then write them in the correct places.

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ten thousands digit is odd	573 602 101 004	816 502 795 032
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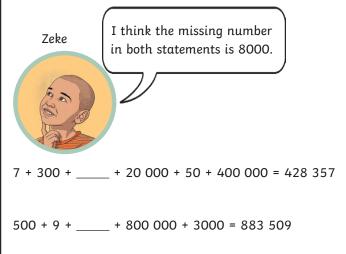
**b)** Choose three of your own 6-digit numbers and write them in the correct place on the Carroll diagram.

#### Numbers to 1 000 000

**1)** Is the number 703 041 represented correctly on the place value chart? Explain your reasoning.

Thousands		Ones			
HTh	TTh	Th	н	т	0
				•	

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**b)** Choose three of your own 6-digit numbers and write them in the correct place on the Carroll diagram.

