To know how to read and represent numbers to 10,000,000

| 1 | Part  | rtition these numbers.  |   |                |          |   |   |          |    |  |
|---|---|---|---|----------------|----------|---|---|----------|----|--|
|   | а   | 3,456,190   | ) | b              | 3,546,91 | 0 | С | 5,346,03 | 19 |  |
|   | d   | Each of these numbers uses the same digits. What do you notice about the value of the digits in each number?                            |   |                |          |   |   |          |    |  |
|   | Represent these numbers pictorially.  |   |   |                |          |   |   |          |    |  |
|   | е   | 4,129,004   | Ļ | f              | 6,245,80 | 0 | g | 3,540,02 | 27 |  |
| 2 | а   | Write the number shown in digits.   |   |                |          |   |   |          |    |  |
|   |   | Millions Group  |   | Thousands Grou | up       |   | - | 0        |    |  |
|   |   | Mil   |   | T Th           |          | Н |   | 0        |    |  |
|   | <ul><li>b Show the number using a different pictorial representation.</li><li>c Can you use the can number of counters to show 9,140,221?</li></ul> |   |   |                |          |   |   |          |    |  |
|   |   |   |   |                |          |   |   |          |    |  |
|   | d   | Tim says that by moving one counter, he can change the value of the whole number by two million, is this correct                        |   |                |          |   |   |          |    |  |
| 3 | а   | 100,000 more than 7,986,903 is 8,986,903. Is this a reasonable answer?  |   |                |          |   |   |          |    |  |
|   | b   | In 1950, the population of London was 8,360,847. In 2020, the population was 9,390,847. What is the difference between the populations? |   |                |          |   |   |          |    |  |
|   | С   | In 1980, the population of London was 6,751,196. By 1985, the population decreased by 10,000. What was the population in 1985?          |   |                |          |   |   |          |    |  |

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| Question<br>Number | Question   | Answer   |
|--------------------|--|--|
| 1                  | a to c) Partition these numbers.<br>d) Each of these numbers uses<br>the same digits. What do you<br>notice about the value of the<br>digits in each number?<br>e to g) Represent these numbers<br>pictorially.  | <ul> <li>a) 3,000,000 + 400,000 +<br/>50,000 + 6,000 + 100 + 90</li> <li>b) 3,000,000 + 500,000 +<br/>40,000 + 6,000 + 900 + 10</li> <li>c) 5,000,000 + 300,000 +<br/>40,000 + 6,000 + 10 + 9</li> <li>d) Answers will vary. Pupils<br/>should be encouraged to look<br/>carefully at the numbers and the<br/>similarities and differences<br/>between them. For example, the<br/>6 always has a value of 6,000.</li> <li>e to g) Answers will vary.</li> </ul>  |
| 2                  | <ul> <li>a) Represent Write the number<br/>shown in digits.</li> <li>b) Show the number using a<br/>different pictorial representation.</li> <li>c) Can you use the can number of<br/>counters to show 9,140,221?</li> <li>d) Tim says that by moving one<br/>counter, he can change the value<br/>of the whole number by two<br/>million, is this correct?</li> </ul> | <ul> <li>a) 2,219,131</li> <li>b) Accept appropriate representations that are different to the one given.</li> <li>c) Yes, a total of 19 counters are in the diagram. A total of 19 counters would be needed to make 9,140,221.</li> <li>d) Tim cannot change the value by 2 million only moving one counter. He could only change the value by 2 million if he moved two counters into the millions column or two counts out of the millions column.</li> </ul> |
| 3                  | <ul><li>a) Is this a reasonable answer?</li><li>b) What is the difference between the populations?</li><li>c) What was the population in 1985?</li></ul>   | <ul> <li>a) The answer is not reasonable as the millions column is the only column to change. As there is a 9 in the hundred thousands column, the millions and hundred thousands column should change. The answer should be 8,086,903.</li> <li>b) 1,030,000</li> <li>c) 6,741,196</li> </ul>   |