# Recognise the place value of any number in an integer up to one billion

**1** What numbers are represented on the place value charts?

**a)**

| TTh | Th | H | T | O |
|-----|-----|-----|-----|-----|
| ●●● ● | ●●● ●●● ● | ●●● ●●● ●● | ● | ●● |

35,612

**b)**

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

510, 900

**c)**

| Th | H | T | O |
|-----|-----|-----|-----|
| ●●● ●●● ●●● ●● | ●● ● | | ●● |

8,302

**2** Use a place value chart to make these numbers.

**a)** 15,612

**c)** 1,200,000

**b)** 954,038

**d)** 3.5 million

**3** Draw counters on the place value chart to represent the number.
What is the value of the 7 in each number?

**a)** 23,704,321

| HM | TM | M | HTh | TTh | Th | H | T | O |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | ○ ○ ○○ ○ | ○○ ○○ ○○ ○ | | | ○○ ○○ | ○○ ○ | ○○ | ○ |

700,000

**b)** 174,203,250

| HM | TM | M | HTh | TTh | Th | H | T | O |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ○ | ○○ ○○ ○○ ○ | ○○ ○○ | ○○ | | ○○ ○ | ○○ | ○○ ○○ ○ | |

70,000,000

**4** What number is represented on each place value chart?

**a)**

| HM | TM | M | HTh | TTh | Th | H | T | O |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ● | | ●●● ●●● ●●● ● | ●●● | ● | ●● ● | | ●●● ●● | ●●● |

107, 213,042

**b)**

| HM | TM | M | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|---|---|
|  | ●● | ●● | ●● |  | ● | ●● | ● |  |
|  | ●● | ●● | ●● |  |  | ●● |  |  |
|  |  | ● |  |  |  | ● |  |  |
|  |  | ● |  |  |  |  |  |  |

**47,401,510**

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**5** Complete the representations so that they show the same number.

| HM | TM | M | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|---|---|
|  | ●○ | ●● |  | ○○ | ●● | ●● |  | ○○ |
|  |  | ●● |  |  | ●● | ● |  | ○○ |
|  |  | ● |  |  | ○○ |  |  | ○ |

**25,026,305**

Branches: 20,000,000 · 5,000,000 · 20,000 · 6,000 · 300 · 5

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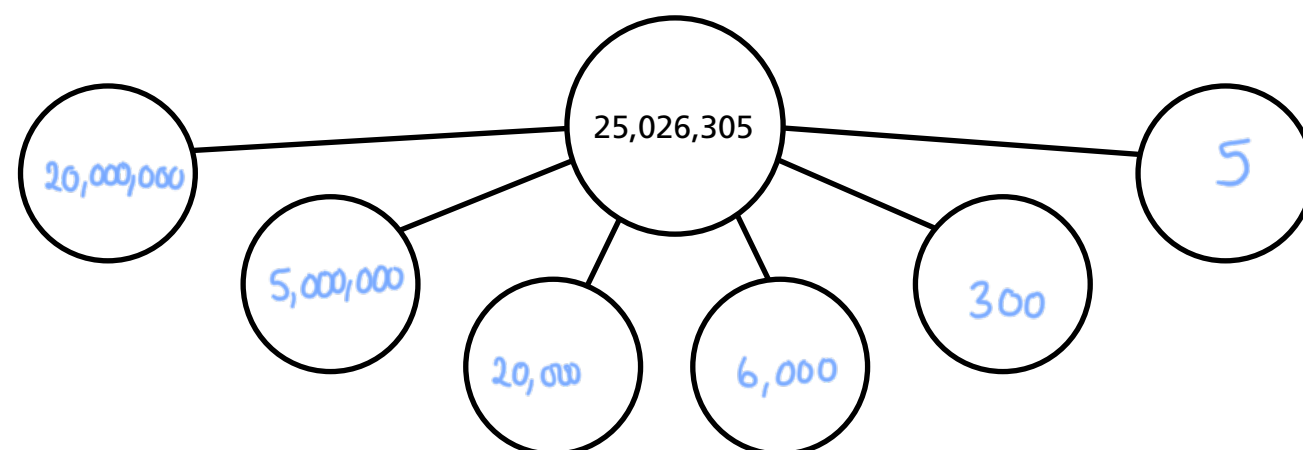
**6** State the value of the 6 in each of the numbers.

a) 67   **60**

b) 7,006,000   **6,000**

c) 67,000   **60,000**

d) 67,000,000   **60,000,000**

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e) 76,000,000   **6,000,000**

f) 607,000,700   **600,000,000**

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**7** Write two numbers to fit each description.

a) There is five in the ten thousands place and five in the tens place.

Eg.  **50,050**  and  **3,751,259**

b) There is five in the ten millions place and five in the hundred thousands place.

Eg.  **50,500,000**  and  **153,572,691**

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**8** Complete the additions.

a) 26,300 = 20,000 + 6,000 + **300**

b) 715,000 = **700,000** + **10,000** + **5,000**

c) **20,957** = 20,000 + 900 + 50 + 7

d) **20,957** = 20,000 + 900 + 57

e) 214,907,000 = 200,000,000 + 14,000,000 + 90,000 + **817,000**

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**9** Work with a partner to see how many ways you can partition the number.

> Thirteen million, four hundred and six thousand, nine hundred and twenty-eight