This week: Place value of 4 digit numbers and 1000 more or less than a number

Session 1: Counting in 1000s
It is important to remember that
10 ones $=1$ ten


10 hundreds $=1$ thousand


10 thousands can be written as 10,000

1) How many sweets are there?


Write your answer in numerals and words.
$\square$
2) Class $4 B$ are collecting pennies in jars.

Each jar contains 1,000 pennies.


How many pennies are there in total?
Write your answer in numerals and words.
3) What numbers are represented?
a)

b)


4) Complete the number tracks.


| 9,000 | $\square$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

5) Eva starts from zero and counts up in 1,000 s. Circle all the numbers that she says.

| 5,000 | 6,000 | 1,500 | 3,999 |
| :---: | :---: | :---: | :---: |
| 1,000 | 10,000 | 15,000 | 700 |




Is Rosie correct?
How do you know?
7)

## Always, Sometimes or Never



Session 2: $1000 \mathrm{~s}, 100 \mathrm{~s}, 10 \mathrm{~s}$ and 1 s
This session is a reminder about the different ways to represent numbers and the value of different columns.

1) How many nails are there?

2) 

What numbers are represented?
a)

a)
b)

-
b)

3) Mo is trying to make the number 3,250

He represents it on a place value chart.


Is Mo correct?
How do you know?
4) Circle the base 10 or counters to show each number.
a) 2,053

b) 5,124

5) True or False?

## True orfalse?

If a hundreds counter is added to the place value grid, it would represent the number 5,543

| $1,000 \mathrm{~s}$ | 100 s | 10 s | ls |
| :---: | :---: | :---: | :---: |
| 1000 | 100 | 0 | 1 |
| 1000 | 1000 | 100 | 10 |
| 1000 | 100 |  |  |

$\square$
6)

> Use the clues to find the missing digits.

The thousands and tens digits multiply together to make 15.

The hundreds and tens digits have a digit total of 7 .
The ones digit is double the thousands.
The whole number has a digit total of 16.
$\square$
7) How many four-digit numbers can you create using the following rules?

- The ones digit is 5 .
- The tens digit is two more than the hundreds digit.
- The four digits have a total of 15.

Session 3: Find a 1000 more or less than a number
Remember:

- When adding to the thousands place value column the hundreds, tens and ones columns will not change.
- If you have 10 or more thousands you will need to exchange 10 of them for 1 in the next column.

1) 

| 1,000 less | number | 1,000 more |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

2) $2493+1000=$ $\qquad$ $6347+1000=$ $\qquad$

$$
5734+1000=
$$

$1000+3951=$ $\qquad$
$2493-1000=$ $\qquad$
$6347-1000=$ $\qquad$
$1567-1000=$ $\qquad$
$4222-1000=$ $\qquad$
3)

| -1000 | Number | +1000 |
| :---: | :---: | :---: |
|  | 6,000 | $\square$ |
|  | 6,095 | $\square$ |
|  | 7,700 | $\square$ |
|  | 8,370 | $\square$ |
|  | 9,630 | $\square$ |
|  |  | 10,210 |

4) 

Use the place value chart to help you complete the sentences.

| Th | H | T | O |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

a) 1000 more than 4132 is $\qquad$
c) 10 less than 4192 Is $\qquad$
1000 less than 4192 is $\qquad$
10 more than 4192 is $\qquad$
b) 100 more than 4192 is $\qquad$
d) 1 more than 4192 is $\qquad$
100 less than 4192 is $\qquad$
1 less than 4192 is $\qquad$
5)
a) Mo thinks of a number.

1,000 less than Mo's number is 5,751
What is 10 less than Mo's number?
b) 1 less than Ron's number is 100 more than Mo's number.

What is Ron's number?
A)
B)
6) True or False

7)


I am thinking about trying to solve this by making a boat out of lego and then choosing some object or cuddly toys as my passengers. What will you try?

## Sail away

Two men and two women want to sail to an island.


How can all four of them get to the island?

Session 1 - Answers

1) Five Thousand - 5000
2) Seven Thousand - 7000
3) a - Three Thousand - 3000 b- Eight Thousand - 8000
4) a $-4000,5000,7000,8000$ b - 8000, 6000,4000
5) $5000,6000,1000,10000,15000$
6) Rosie is correct. 1000 is divisible by 2 without leaving a remainder so any 1000 is an even number.
7) Tia - Never True. Esin - Always. Malachi - Sometimes

Session 2 - Answers

1) 3526
2) $a-1552 \quad b-5016$
3) No. Mo has put 5 ones instead of 5 tens. His number is 3205
4) a - 2 thousands, 5 tens and 3 ones
b-5 thousands, 1 hundred, 2 tens and 4 ones.
5) False. The new number would be 5743. If you wanted to represent the number 5543 you would need to subtract a hundreds counter
6) 3256
7) $6135,4245,2355$

Session 3 - Answers

1) $6337-8337$

2508-4508
2) +3493

- 1493

3) $5000-7000$
$7370-9370$
4) a - 5132, 3192
b-4292, 4092
c - 4182, 4202
d - 4193, 4191
5) $a-6741$
b-6852
6) True. $23450+1000=24450 \cdot 25450-1000=24450$
7) Output - 6346 Function -1000 Input - 1457
