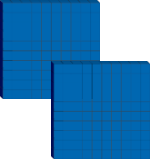
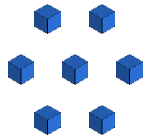


# Reasoning and Problem Solving – 100s, 10s and 1s 1

1a. Edith says she has made the number 287.



Hundreds	Tens	Ones
		

Explain her mistake.



R

1b. Blake says he has made the number 414.

Hundreds	Tens	Ones
		

Explain his mistake.



R

2a. Match the description to the correct number.



Aadil

My number has two hundreds, six tens and three ones.



Hattie

My number has three hundreds, two tens and nine ones.

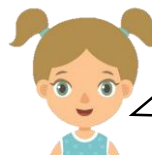
329

263



PS

2b. Match the description to the correct number.



Amber

My number has seven hundreds, one ten and six ones.



Max

My number has six hundreds, four tens and three ones.

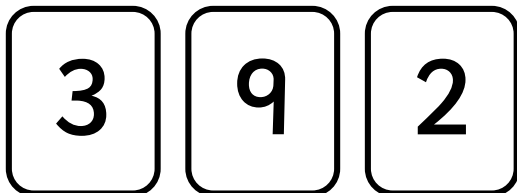
716

643



PS

3a. Find three 3-digit numbers you can make using these digit cards.

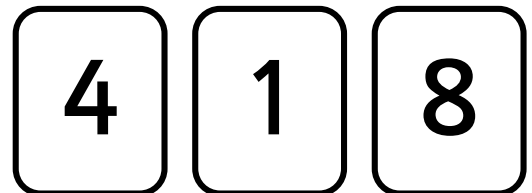


You can only use each card once in each number.



PS

3b. Find three 3-digit numbers you can make using these digit cards.



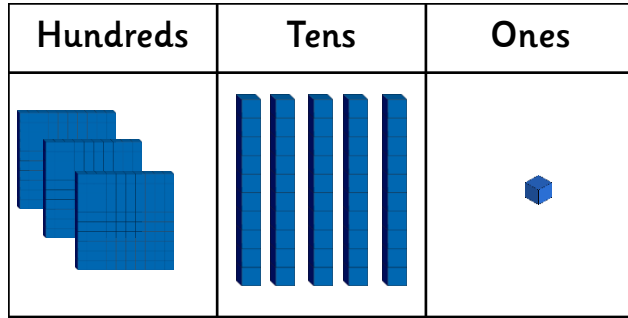
You can only use each card once in each number.



PS

# Reasoning and Problem Solving – 100s, 10s and 1s 1

4a. Harry says he has made the number 531.

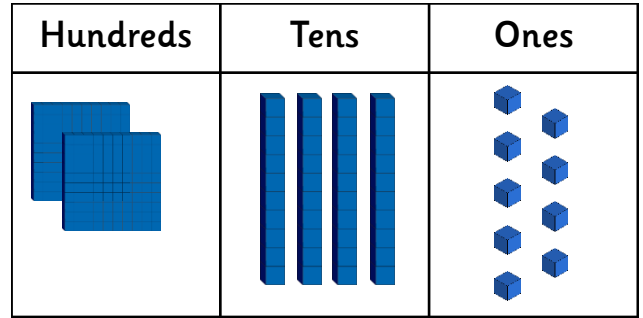


Do you agree? Explain why or why not.



R

4b. Scarlett says she has made the number 294.



Do you agree? Explain why or why not.



R

5a. Match the description to the correct number.



Cheng

My number has four hundreds, three tens and two ones.



Nettie

My number has two tens, three hundreds and six ones.



Sam

My number has eight ones, five tens and three hundreds.

326	328	432	358
-----	-----	-----	-----



PS

5b. Match the description to the correct number.



Lucy

My number has six hundreds, eight tens and no ones.



Vikran

My number has two ones, nine tens and seven hundreds.



Betty

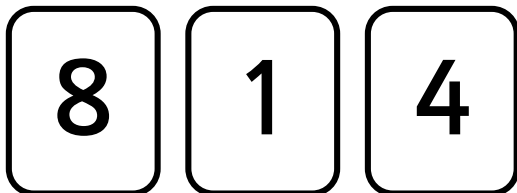
My number has six tens, one hundreds and five ones.

792	165	681	680
-----	-----	-----	-----



PS

6a. Find all the 3-digit numbers you can make using these digit cards.



You can only use each card once in each number.



PS

6b. Find all the 3-digit numbers you can make using these digit cards.



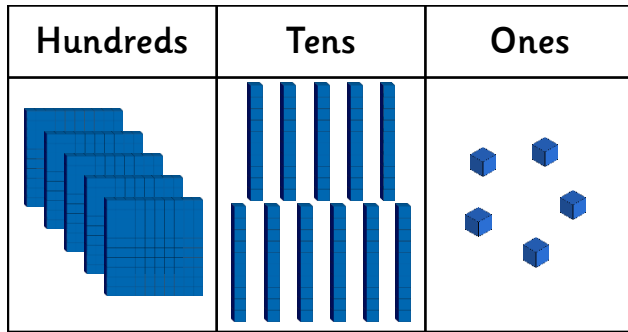
You can only use each card once in each number.



PS

# Reasoning and Problem Solving – 100s, 10s and 1s 1

7a. Beth says she has made the number 615.

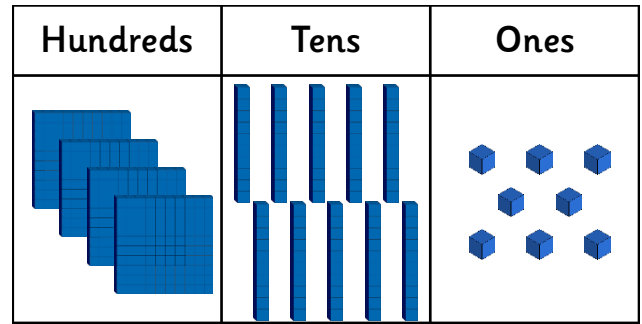


Do you agree? Explain why or why not.



R

7b. Zac says he has made the number 4,108.



Do you agree? Explain why or why not.



R

8a. Match the description to the correct number.



Simon

My number has six thousands, two hundreds, seven tens and eight ones.



Maya

My number has two hundreds, eight tens, 6 thousands and seven ones.



Maria

My number has two hundreds, eight tens, seven thousands and 6 ones.

7,286

6,278

6,287

7,268



PS

8b. Match the description to the correct number.



Rosie

My number has six ones, five hundreds, four tens and three thousands.



Oscar

My number has six hundreds, five tens, four thousands, and three ones.



Nicola

My number has six hundreds, five tens, three thousands and four ones.

3,654

4,653

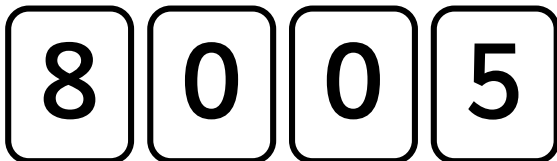
4,635

3,546



PS

9a. Find all the 3 and 4-digit numbers you can make using these digit cards.

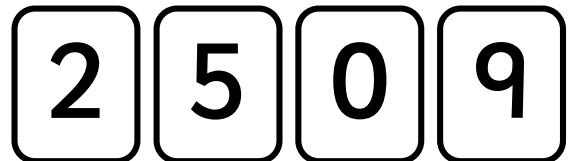


You can only use each card once in each number.



PS

9b. Find all the 3 and 4-digit numbers you can make using these digit cards.



You can only use each card once in each number.



PS

# Reasoning and Problem Solving – 100s, 10s and 1s 1

## Developing

- 1a. Edith has not included eight tens.
- 1b. Blake has not included four hundreds.
- 2a. Aadil – 263; Hattie – 329
- 2b. Amber – 716; Max – 643
- 3a. Various answers; for example: 239, 293, 329, 392, 923 or 932.
- 3b. Various answers; for example: 148, 184, 418, 481, 814, 841.

## Expected

- 4a. No, because he has three hundreds, five tens and one ones so he has made the number 351, not 531. He could have mixed up the hundreds and tens.
- 4b. No, because she has two hundreds, four tens and nine ones so she has made 249, not 294. She could have mixed up the tens and ones.
- 5a. Cheng – 432; Nettie – 326; Sam – 358
- 5b. Lucy – 680; Vikran – 792; Betty – 165
- 6a. 148; 184; 418; 481; 814; 841
- 6b. 237; 273; 327; 372; 723; 732

## Greater Depth

- 7a. Yes, because Beth only has five hundreds, but she has eleven tens which make 110.  $500 + 110 + 5 = 615$ .
- 7b. No, because he has four hundreds, ten tens and eight ones so he has made 508.
- 8a. Simon – 6,278; Maya – 6,287; Maria – 7,286
- 8b. Rosie – 3,546; Oscar – 4,653; Nicola – 3,654
- 9a. Various answers; for example: 500; 508; 805; 850; 5,008; 5,080; 8,500
- 9b. Various answers; for example: 205; 250; 290; 520; 2,059; 2,509; 9,205