

## Mathematical Reasoning and Problem Solving

A

**Year 1 Place Value:** Sorting and Comparing objects and numbers up to 100

Use your understanding of place value to explain your thinking to the problems below

1) Max and Kenzo are talking about how these objects have been sorted.



The cubes have been sorted into green and purple



The cubes have been sorted into groups of 5



Kenzo

Who is correct?



2) How many different ways can these items be grouped?



3) Aimee and Tristan disagree about who has the largest number.



I have the most counters so I have the largest number.



Aimee



You have a total of 17, I have 21. I have the largest number.

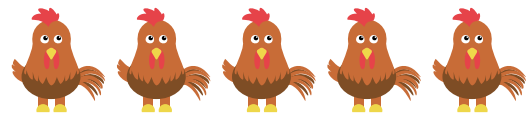


Tristan

Who is correct?



4) Mali has 5 chickens in her back yard. She has fewer rabbits than chickens.



How many rabbits could she have?



5) Abdul is comparing two numbers.

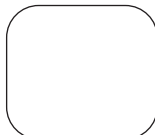


Abdul

My number is less than 18 and is more than 14. What could be my number?

18

More than



6) Help Jack put the right numbers in the spaces below.



Jack

\_\_\_\_\_ is more than 12 but less than 15.

\_\_\_\_\_ is less than sixteen but more than eleven.



## Mathematical Reasoning and Problem Solving

B

**Year 1 Place Value: Sorting and Comparing objects and numbers up to 100**

Use your understanding of place value to explain your thinking to the problems below

- 7) Help Jack put the right numbers in the spaces below.



Jack

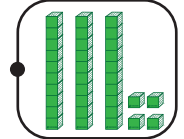
\_\_\_\_\_ is more than 48 but less than 55.

\_\_\_\_\_ is less than eighty-five but more than seventy-eight.

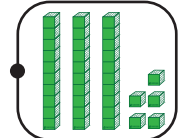
SUCCEEDU

- 8) Join the correct ones together

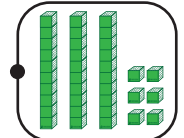
Is bigger than 35



Is smaller than 35



Is equal to 35



SUCCEEDU

- 9) Abdul is thinking of a number.

It is more than 45 but less than 50.



Abdul

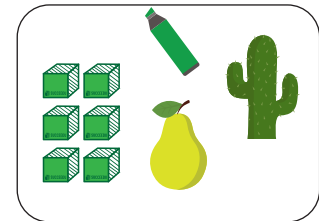
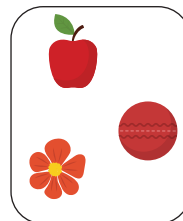
What number could he thinking of?

SUCCEEDU

- 10) I have grouped the items below by colour.



Aimee



Can you think of another way to group these items

SUCCEEDU

- 11) **Sometimes, Always, Never**

If a 2-digit number is larger than another 2-digit number. The larger number must have more tens.

SUCCEEDU

- 12) Use the numbers below to make a 2-digit number that will fit into the statement.

2

3

7

\_\_\_\_\_ is less than

62

SUCCEEDU

## Mathematical Reasoning and Problem Solving

### Year 1 Place Value: Sorting and Comparing objects and numbers up to 100

#### Answers

1) Max and Kenzo are talking about how these objects have been sorted.

**Who is correct?**

Both are Correct.  
The cubes have been sorted  
into colours  
and into groups of 5



2) How many different ways can these items be grouped?



Grouped into colours



Grouped into sport items  
and non-sport items



Grouped into circular shapes  
and non-circular shapes



Grouped into plant based  
items and non-plant items



3) Aimee and Tristan disagree about who has the largest number.

**Who is correct?**

Tristan is correct. Aimee has only counted the  
counters instead of looking the the value  
of each counter



4) Mali has 5 chickens in her back yard.  
She has fewer rabbits than chickens.

**How many rabbits could she have?**

Mali could have  
4,3,2 or 1 rabbit(s)



5) Abdul is comparing two  
numbers.

Possible numbers are:  
15,16 & 17



6)

13 or 14

is more than 48 but less than 55.

thirteen, fourteen

is less than eighty-five but more  
than seventy-eight.



## Mathematical Reasoning and Problem Solving

B

**Year 1 Place Value:** Sorting and Comparing objects and numbers up to 100

Use your understanding of place value to explain your thinking to the problems below

7)

49, 50, 51, 52, 53, 54  
is more than 48 but less than 55.

seventy-nine, eighty, eighty-one, eighty-two, eighty-three, eighty-four  
is less than eighty-five but more than seventy-eight.

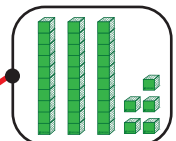
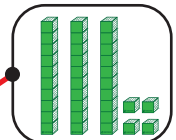
SUCCEEDU

8) Join the correct ones together

Is bigger than 35

Is smaller than 35

Is equal to 35



SUCCEEDU

9) Abdul is thinking of a number.



Abdul

It is more than 45 but less than 50.

46

47

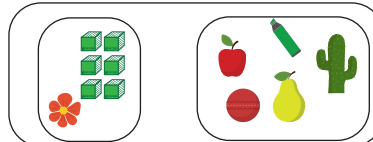
48

49

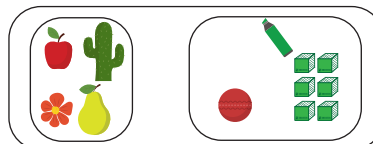
What number could he thinking of?

SUCCEEDU

10) Can you think of another way to group these items



Grouped into the number 6 (6 petals 6 cubes) and 1



Grouped into the plants and non-plants

SUCCEEDU

11)

**Sometimes, Always, Never**

**Example 1:** 23 is larger than 21. Both these numbers have the same amount of tens.

**Example 2:** 33 is larger than 21. The larger number has a higher value of tens.

SUCCEEDU

12)

Use the numbers below to make a 2-digit number that will fit into the statement.

Possible numbers are:  
23, 27, 32, 37

SUCCEEDU