

# Varied Fluency

## Step 2: Representing Numbers

### National Curriculum Objectives:

Mathematics Year 2: (2N4) [Identify, represent and estimate numbers using different representations, including the number line](#)

### Differentiation:

**Developing** Questions to support representing two-digit numbers using Base 10, bead strings, cubes, straws and Numicon. Resources presented in order of size. Same representations used with a question. Numbers represented on number lines with labelled intervals.

**Expected** Questions to support representing two-digit numbers using Base 10, bead strings, cubes, straws and Numicon. Different representations may be used within a question. Numbers represented on number lines with some labelled intervals.

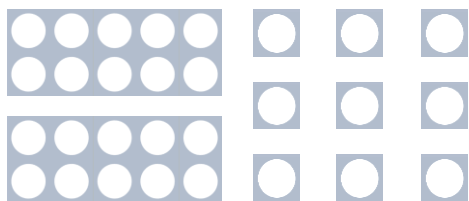
**Greater Depth** Questions to support representing two-digit numbers using Base 10, bead strings, cubes, straws and Numicon. Mixed pictorials may be used within a representation and some unconventional partitioning used. Numbers represented on number lines with unlabelled intervals.

More [Year 2 Place Value](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

## Representing Numbers

1a. Circle the correct partitioning that shows the image below.



2 tens and 8 ones

4 tens and 9 ones

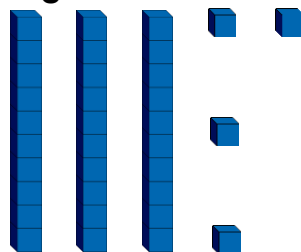
2 tens and 9 ones

VF



## Representing Numbers

1b. Circle the correct partitioning that shows the image below.



4 tens and 3 ones

3 tens and 4 ones

3 tens and 5 ones

VF



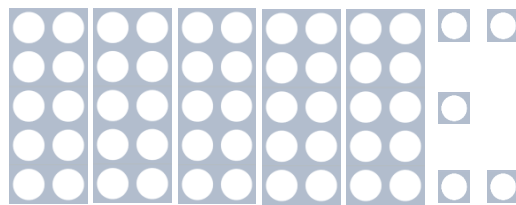
2a. True or false? This representation shows 6 tens and 2 ones.



VF



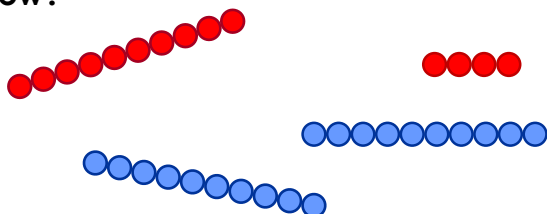
2b. True or false? This representation shows 5 tens and 4 ones.



VF



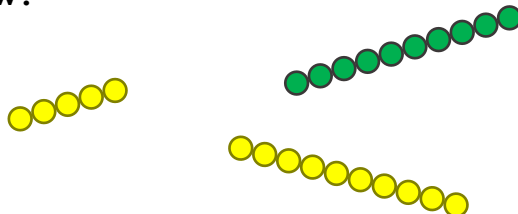
3a. Count the tens and ones from the broken bead string. What number did it show?



VF



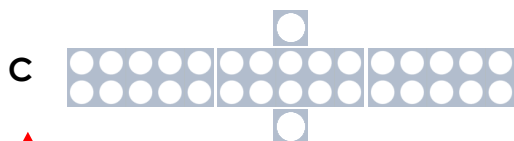
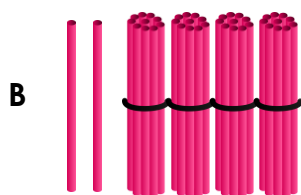
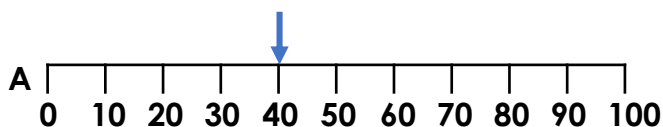
3b. Count the tens and ones from the broken bead string. What number did it show?



VF



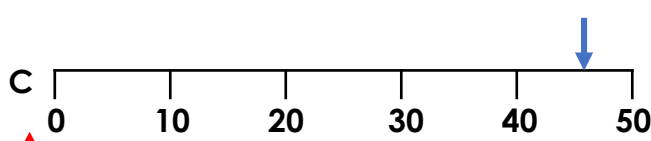
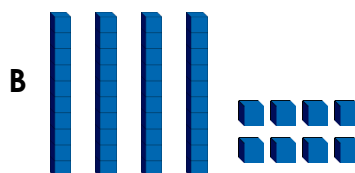
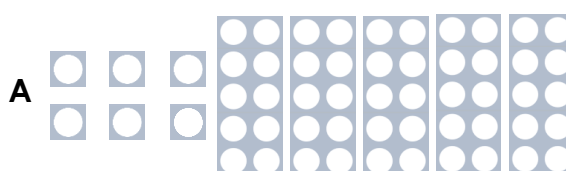
4a. Which representation shows 32?



VF



4b. Which representation shows 46?

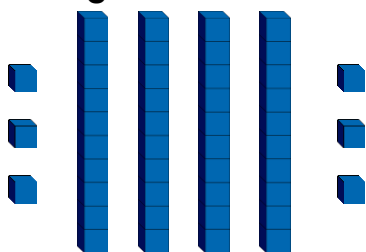


VF



## Representing Numbers

5a. Circle the correct partitioning that shows the image below.



4 tens and 4 ones

4 tens and 6 ones

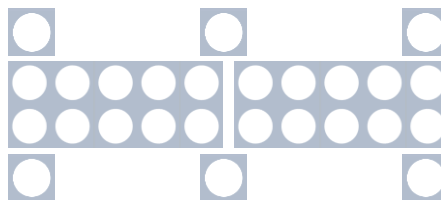
6 tens and 4 ones



VF

## Representing Numbers

5b. Circle the correct partitioning that shows the image below.



6 tens and 2 ones

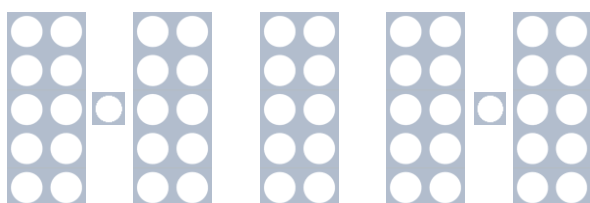
4 tens and 6 ones

2 tens and 6 ones



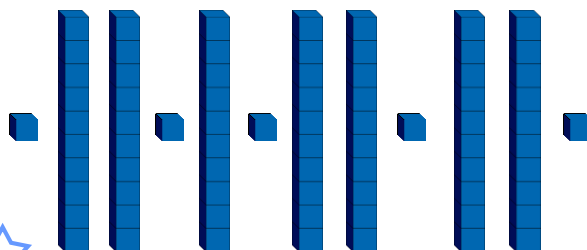
VF

6a. True or false? This representation shows 6 tens and 2 ones.



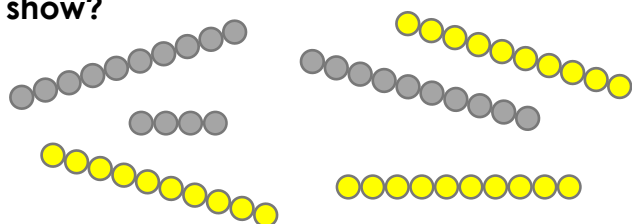
VF

6b. True or false? This representation shows 8 tens and 5 ones.



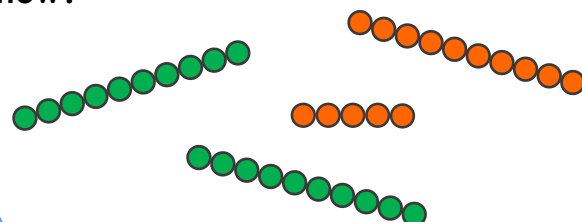
VF

7a. Count the tens and ones from the broken bead string. What number did it show?



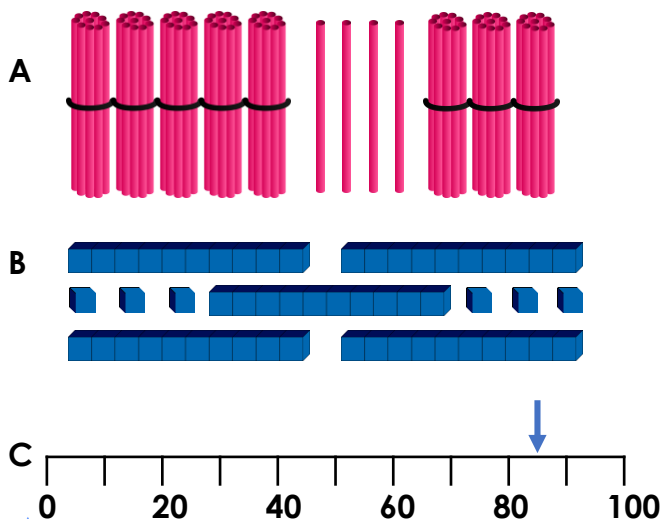
VF

7b. Count the tens and ones from the broken bead string. What number did it show?



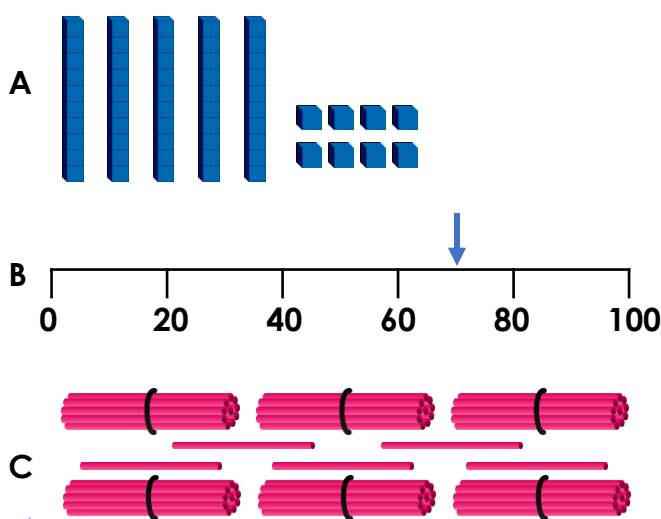
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8a. Which representation show 85?



VF

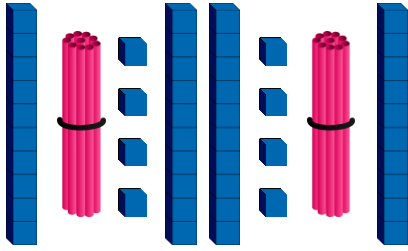
8b. Which representation shows 65?



VF

## Representing Numbers

9a. Circle the correct partitioning that shows the image below.



4 tens and 6 ones

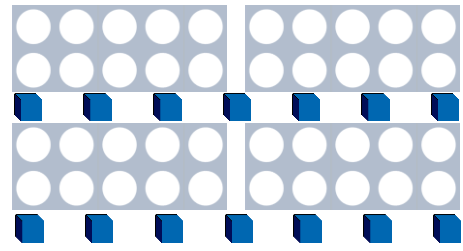
6 tens and 8 ones

5 tens and 8 ones

VF

## Representing Numbers

9b. Circle the correct partitioning that shows the image below.



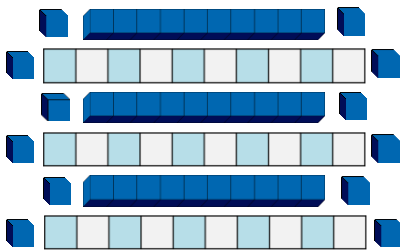
4 tens and 7 ones

8 tens and 12 ones

4 tens and 14 ones

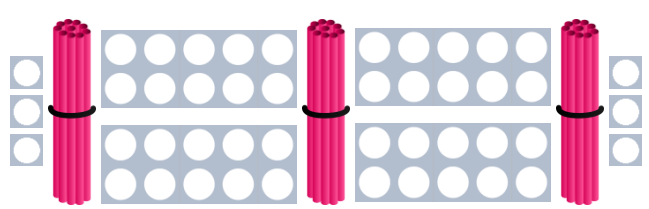
VF

10a. True or false? This representation shows 6 tens and 12 ones.



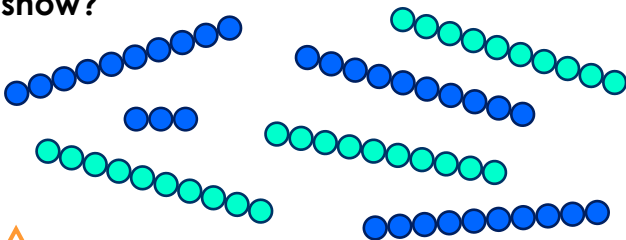
VF

10b. True or false? This representation shows 6 tens and 7 ones.



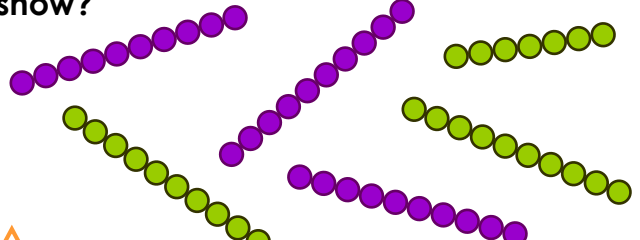
VF

11a. Count the tens and ones from the broken bead string. What number did it show?



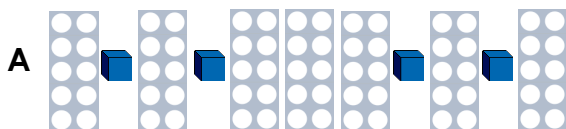
VF

11b. Count the tens and ones from the broken bead string. What number did it show?



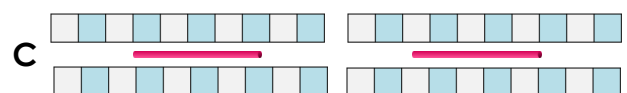
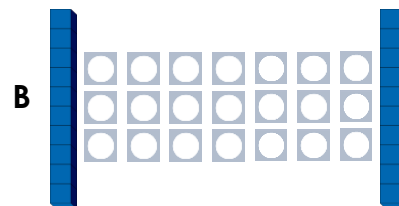
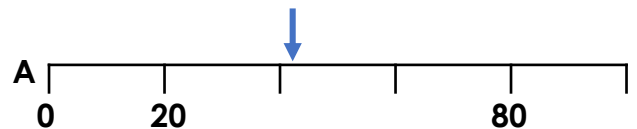
VF

12a. Which representations show 64?



VF

12b. Which representations show 41?



VF

**Varied Fluency**  
**Representing Numbers**

**Developing**

- 1a. 2 tens and 9 ones
- 2a. False; 2 tens and 6 ones
- 3a. 34
- 4a. C

**Expected**

- 5a. 4 tens and 6 ones
- 6a. False; 5 tens and 2 ones
- 7a. 54
- 8a. C

**Greater Depth**

- 9a. 6 tens and 8 ones
- 10a. True
- 11a. 63
- 12a. B and C

**Varied Fluency**  
**Representing Numbers**

**Developing**

- 1b. 3 tens and 4 ones
- 2b. False; 5 tens and 5 ones
- 3b. 25
- 4b. C

**Expected**

- 5b. 2 tens and 6 ones
- 6b. False; 7 tens and 5 ones
- 7b. 35
- 8b. C

**Greater Depth**

- 9b. 4 tens and 14 ones
- 10b. False; 7 tens and 6 ones
- 11b. 57
- 12b. A and B