

Varied Fluency

Step 2: Partitioning Numbers

National Curriculum Objectives:

Mathematics Year 1: (1N4) [Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than \(fewer\), most and least](#)

Differentiation:

Developing Questions to support the understanding of place value using visual representations of numbers less than 50.

Expected Questions to support partitioning numbers into tens and ones. Using visual representations of numbers up to 100.

Greater Depth Questions to support partitioning numbers into tens and ones. Using mixed visual representations of numbers up to 100. With some unconventional partitioning such as 4 tens and 11 ones is 51.

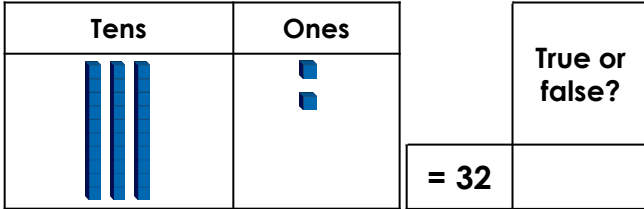
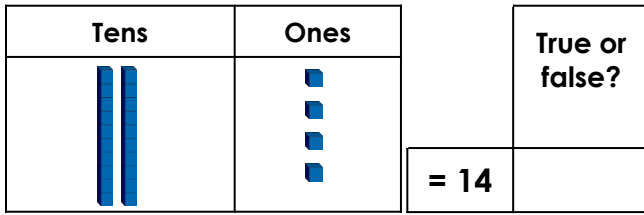
More [Year 1 Place Value](#) resources.

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

Partitioning Numbers

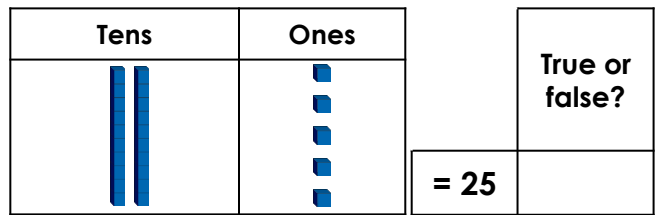
Partitioning Numbers

1a. True or false?



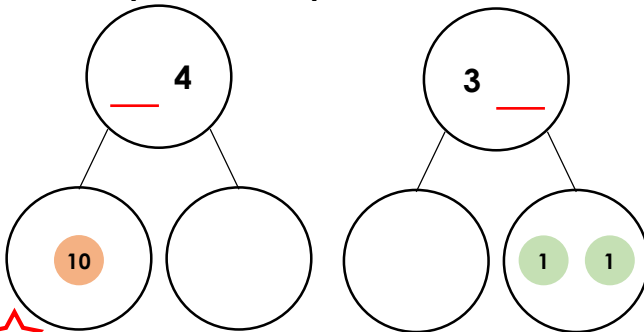
VF

1b. True or false?



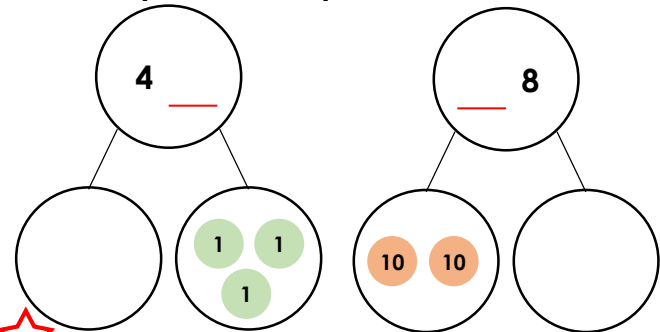
VF

2a. Complete these part whole models.



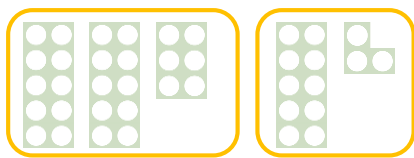
VF

2b. Complete these part whole models.



VF

3a. Match a diagram to a number.

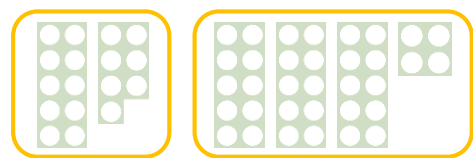


13	35	26	45
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VF

3b. Match a diagram to a number.



17	25	34	42
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VF

4a. Complete the sentences.

12 has tens and ones.
 has 2 tens and 5 ones.
 28 has tens and ones.
 has 3 tens and 6 ones.



VF

4b. Complete the sentences.

23 has tens and ones.
 has 1 tens and 7 ones.
 39 has tens and ones.
 has 2 tens and 8 ones.

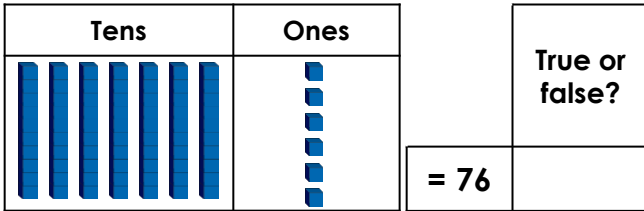
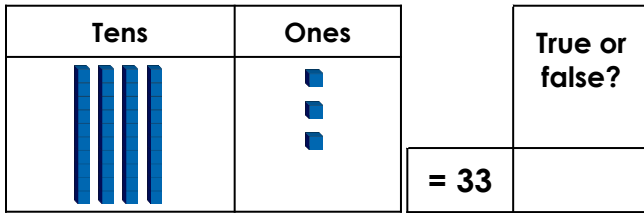


VF

Partitioning Numbers

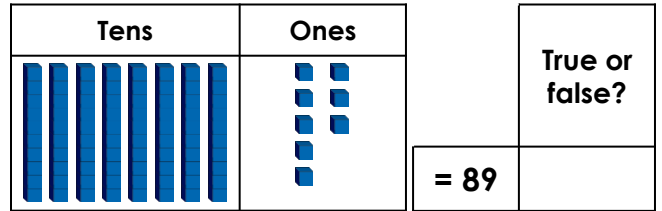
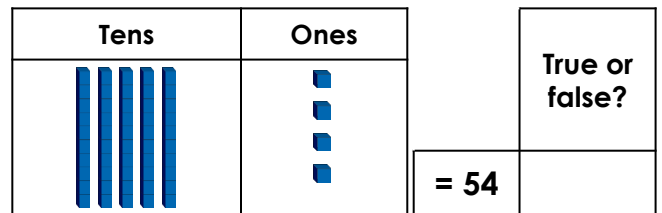
Partitioning Numbers

5a. True or false?



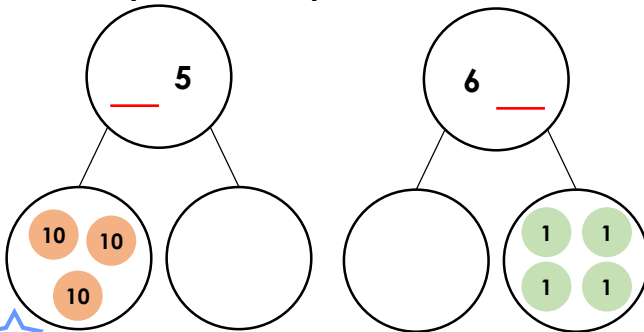
VF

5b. True or false?



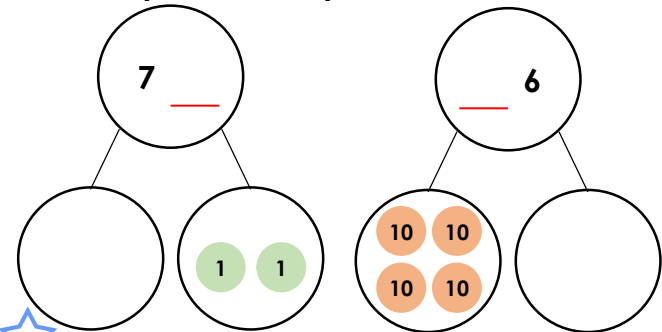
VF

6a. Complete these part whole models.



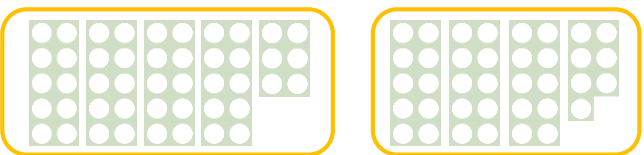
VF

6b. Complete these part whole models.



VF

7a. Match a diagram to a number.

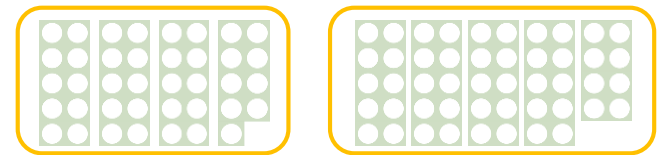


64	37	44	46
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VF

7b. Match a diagram to a number.



54	48	39	72
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VF

8a. Complete the sentences.

37 has tens and ones.
 has 5 tens and 7 ones.
 84 has tens and ones.
 has 6 tens and 8 ones.



VF

8b. Complete the sentences.

54 has tens and ones.
 has 8 tens and 5 ones.
 63 has tens and ones.
 has 9 tens and 2 ones.

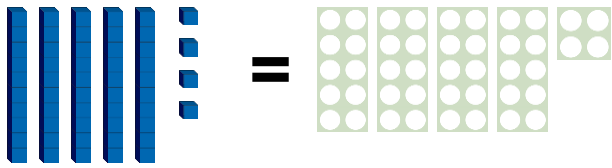


VF

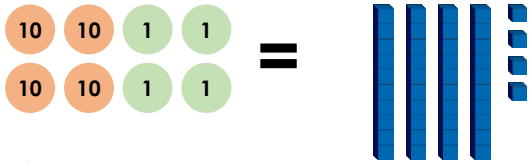
Partitioning Numbers

Partitioning Numbers

9a. True or false?

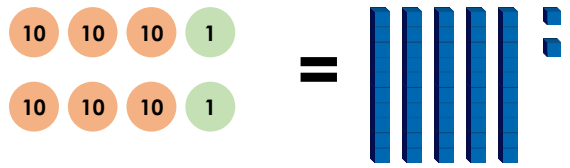


True or false?

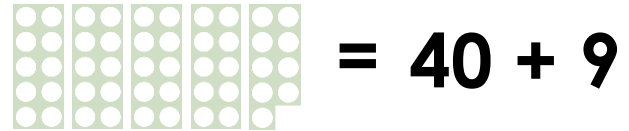


VF

9b. True or false?

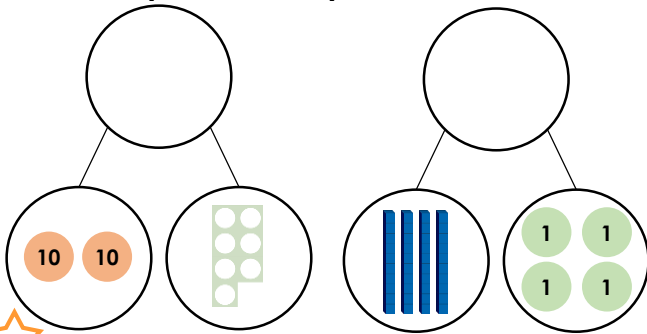


True or false?



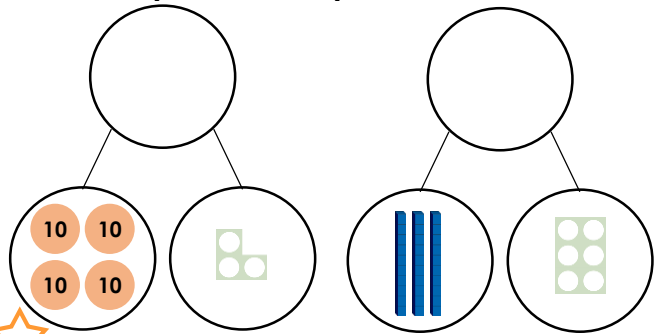
VF

10a. Complete these part whole models.



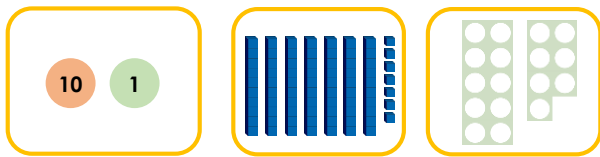
VF

10b. Complete these part whole models.



VF

11a. Match a diagram to a number.



77 17 71 11



VF

11b. Match a diagram to a number.



53 14 24 43



VF

12a. Complete the sentences.

37 has tens and ones.
 has 4 tens and 11 ones.
 84 has tens and ones.
 has 8 tens and 18 ones.



VF

12b. Complete the sentences.

67 has tens and ones.
 has 4 tens and 15 ones.
 63 has tens and ones.
 has 7 tens and 22 ones.



VF

Varied Fluency Partitioning Numbers

Developing

1a. **False.** The diagram shows the number 24.

True

2a. $14 = 10 + 1 + 1 + 1 + 1$

$32 = 10 + 10 + 10 + 2$

3a. The first diagram matches 26 and the second diagram matches 13.

4a. $12 = 1$ tens and 2 ones

$25 = 2$ tens and 5 ones

$28 = 2$ tens and 8 ones

$36 = 3$ tens and 6 ones

Expected

5a. **False.** The diagram shows the number 43.

True

6a. $35 = 30 + 1 + 1 + 1 + 1 + 1$

$64 = 10 + 10 + 10 + 10 + 10 + 10 + 4$

7a. The first diagram matches 46 and the second diagram matches 37.

8a. $37 = 3$ tens and 7 ones

$57 = 5$ tens and 7 ones

$84 = 8$ tens and 4 ones

$68 = 6$ tens and 8 ones

Greater Depth

9a. **False.** The Base 10 blocks show 54, whereas the Numicon shows 44.

True

10a. $27, 44$

11a. The first diagram matches 11, the second diagram matches 77 and the third diagram matches 17.

12a. $37 = 3$ tens and 7 ones

$51 = 4$ tens and 11 ones

$84 = 6$ tens and 24 ones

$98 = 8$ tens and 18 ones

Varied Fluency Partitioning Numbers

Developing

1b. **True**

False. The diagram shows the number 15.

2b. $43 = 10 + 10 + 10 + 10 + 3$

$28 = 20 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1$

3b. The first diagram matches 17 and the second diagram matches 34.

4b. $23 = 2$ tens and 3 ones

$17 = 1$ tens and 7 ones

$39 = 3$ tens and 9 ones

$28 = 2$ tens and 8 ones

Expected

5b. **True**

False. The diagram shows the number 88.

6b. $72 = 10 + 10 + 10 + 10 + 10 + 10 + 10 + 2$

$46 = 40 + 1 + 1 + 1 + 1 + 1 + 1$

7b. The first diagram matches 39 and the second diagram matches 48.

8b. $54 = 5$ tens and 4 ones

$85 = 8$ tens and 5 ones

$63 = 6$ tens and 3 ones

$92 = 9$ tens and 2 ones

Greater Depth

9b. **False.** The place value counters show 62, whereas the Base 10 blocks show 52.

True

10b. $43, 36$

11b. The first diagram matches 24, the second diagram matches 53 and the third diagram matches 14.

12b. $67 = 6$ tens and 7 ones

$55 = 4$ tens and 15 ones

$63 = 3$ tens and 33 ones

$92 = 7$ tens and 22 ones