



Maths

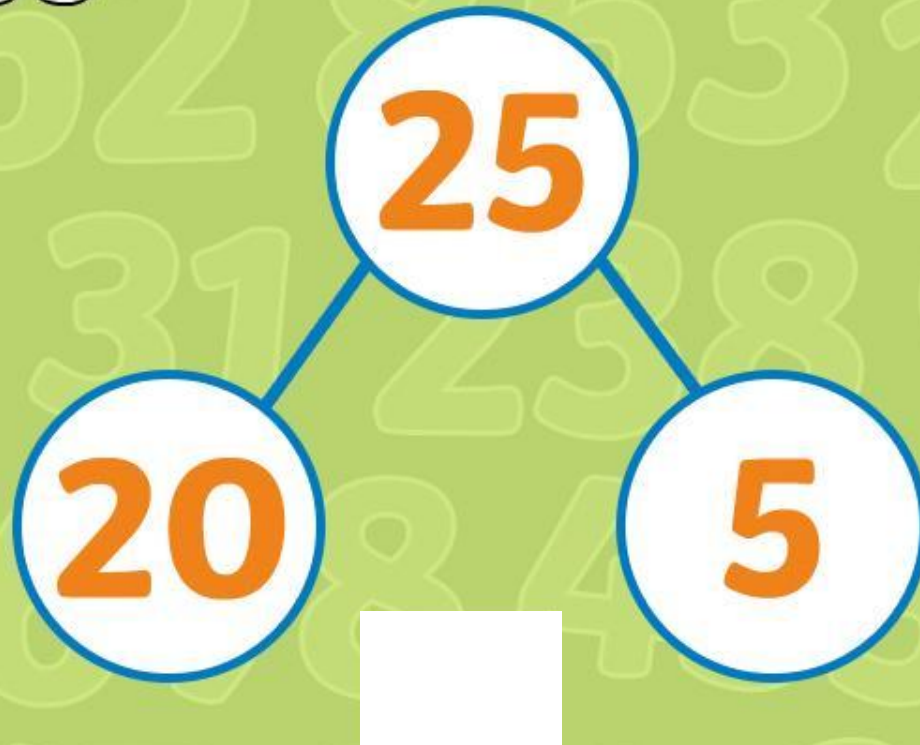
Number and Place Value



**Need a coherently planned sequence of lessons
to complement this resource?**



Partitioning in Different Ways



Aim

- To partition two-digit numbers in different ways.

Success Criteria

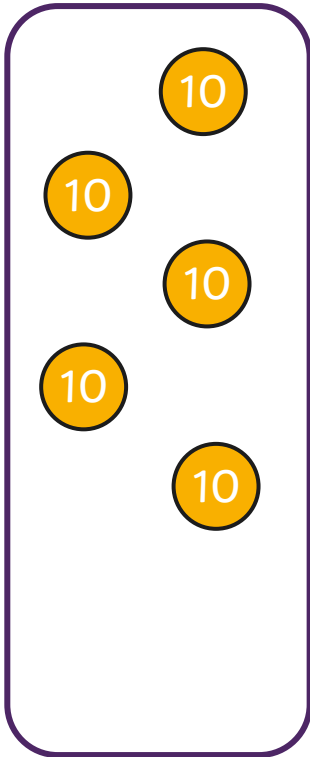
- I can say what the value of each digit is in a two-digit number.
- I can partition a two-digit number into tens and ones.
- I can partition two-digit numbers in more than one way.



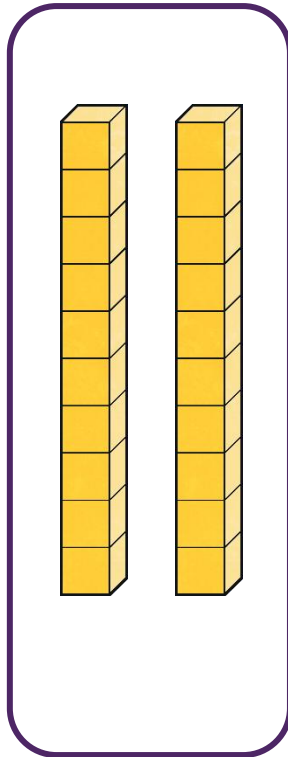
Remember It



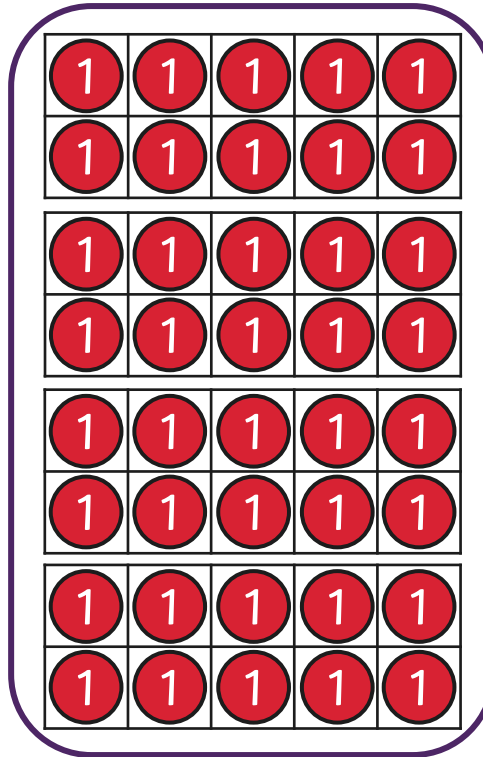
Match the pairs and explain your answers.



2 tens



4 tens



1 ten

Tens	Ones

5 tens



Remember It



Match the pairs and explain your answers.

70

30

80

60

8 tens

6 tens

3 tens

7 tens



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Let's Find Another Way



What do we know about this number?

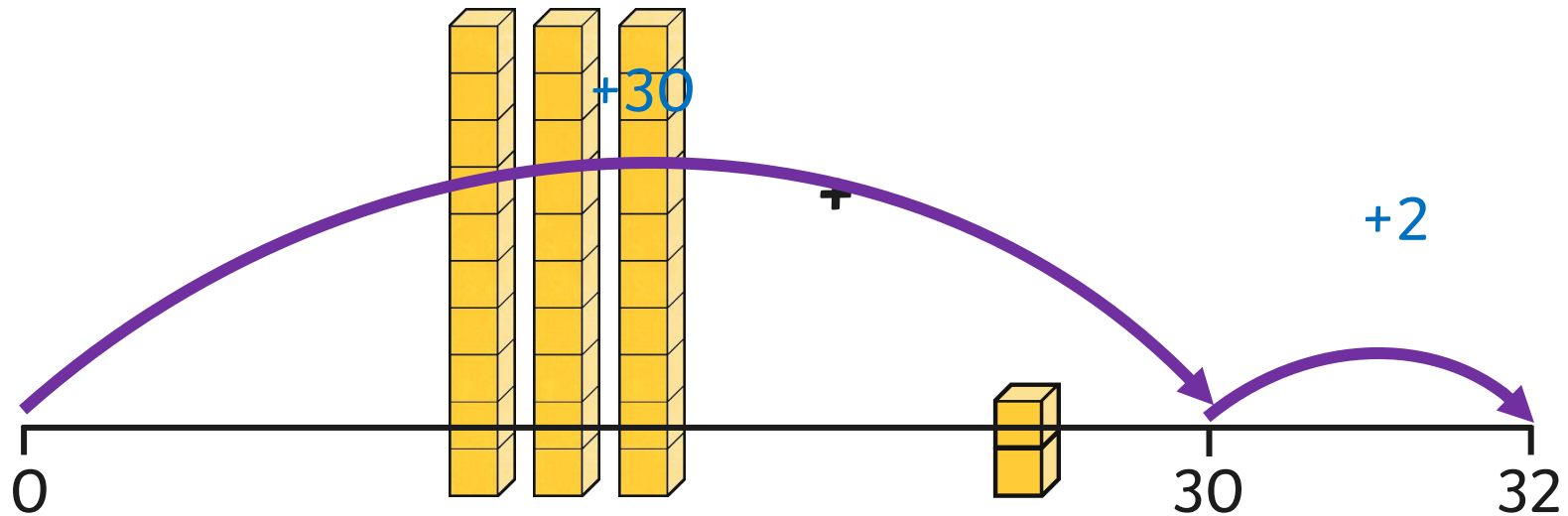


Let's Find Another Way



We can partition this number into a multiple of ten and ones.

$$32 = 30 + 2$$



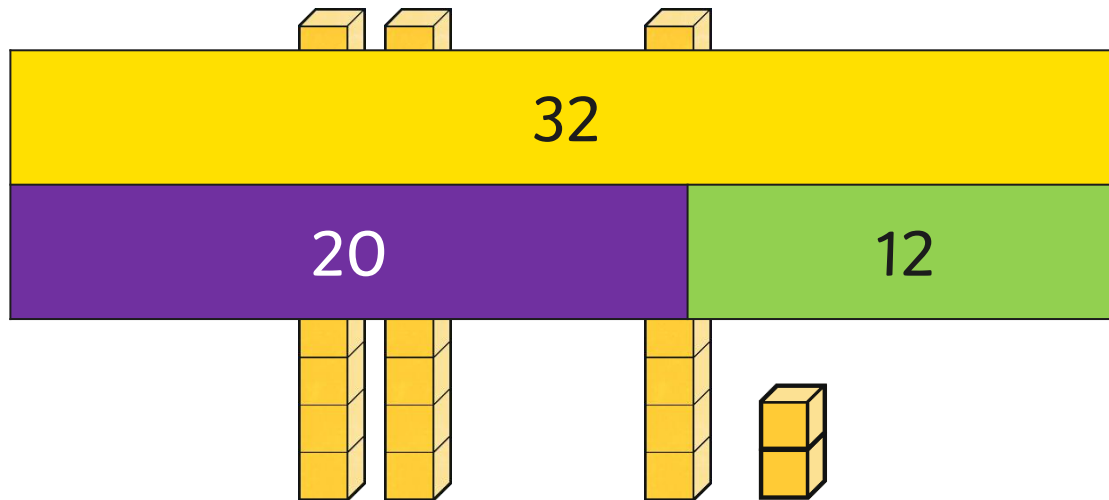
Is there another way?

Let's Find Another Way



Another way we can make 32 is...

$$32 = 20 + 12$$



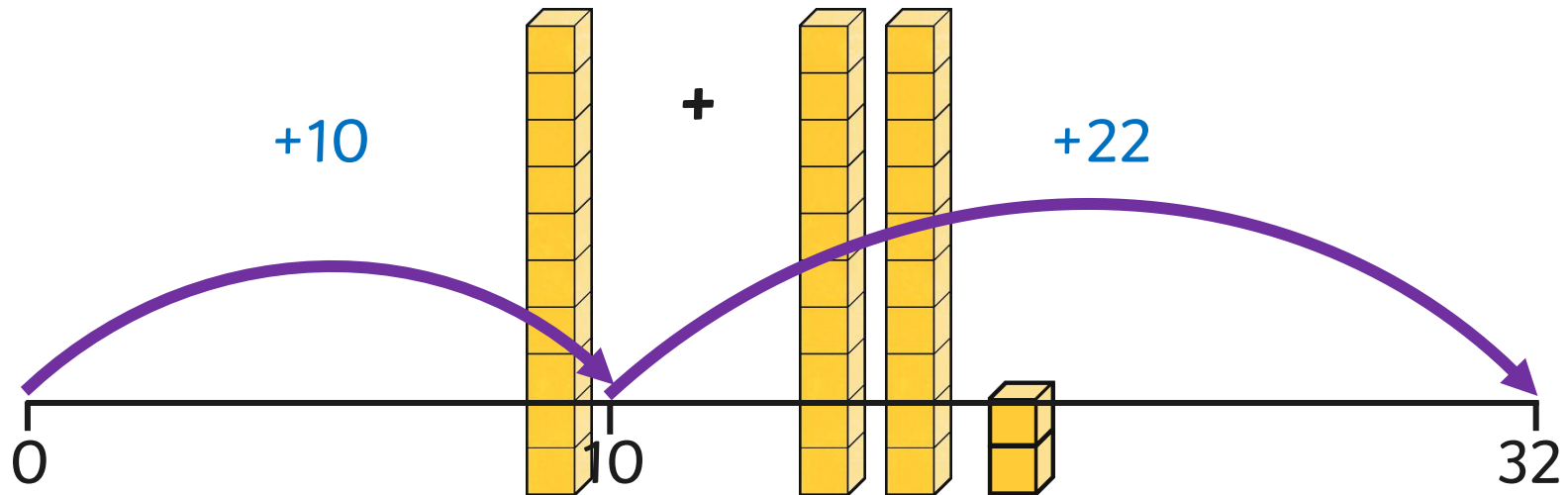
Is there another way?

Let's Find Another Way



We can partition this number into a multiple of ten and a two-digit number.

$$32 = 10 + 22$$



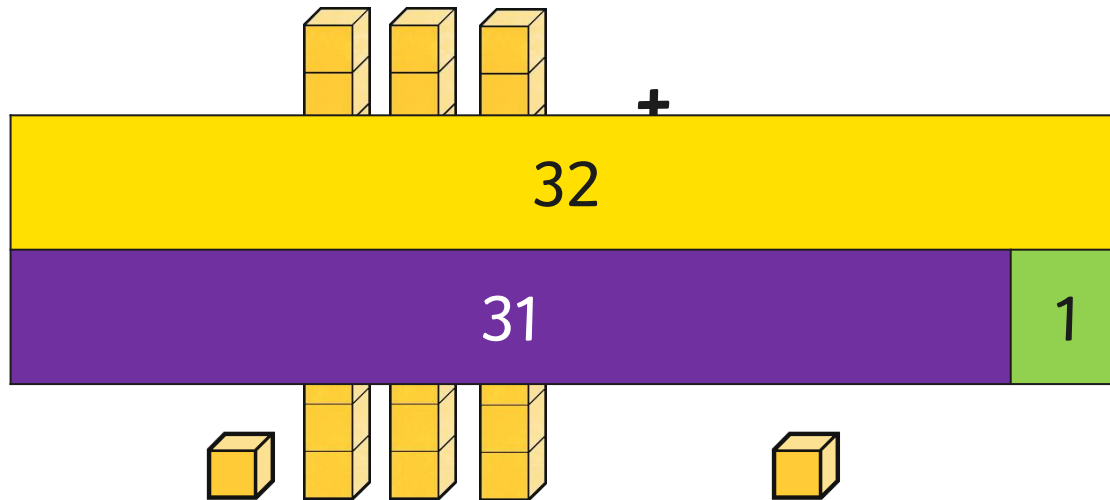
Is there another way?

Let's Find Another Way



We can partition this number into a two-digit number and ones.

$$32 = 31 + 1$$



Is there another way?

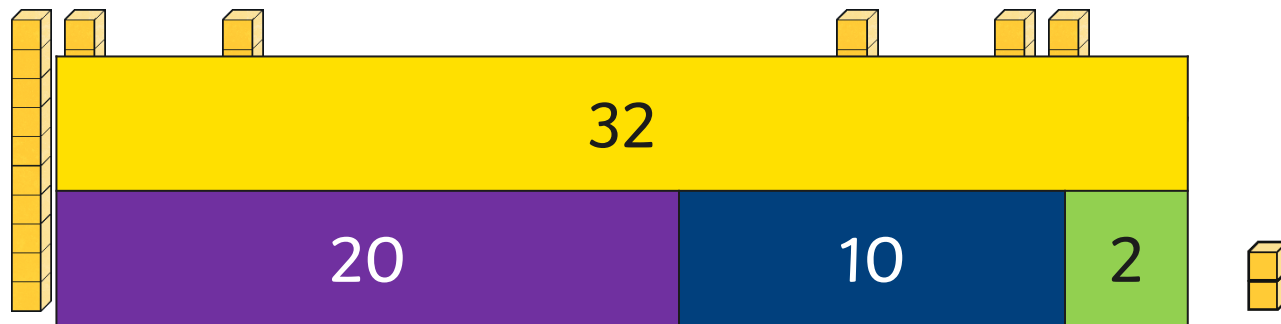
Let's Find Another Way



You can even partition 32 into three numbers.

$$32 = 20 + 10 + 2$$

$$32 = 10 + 20 + 2$$



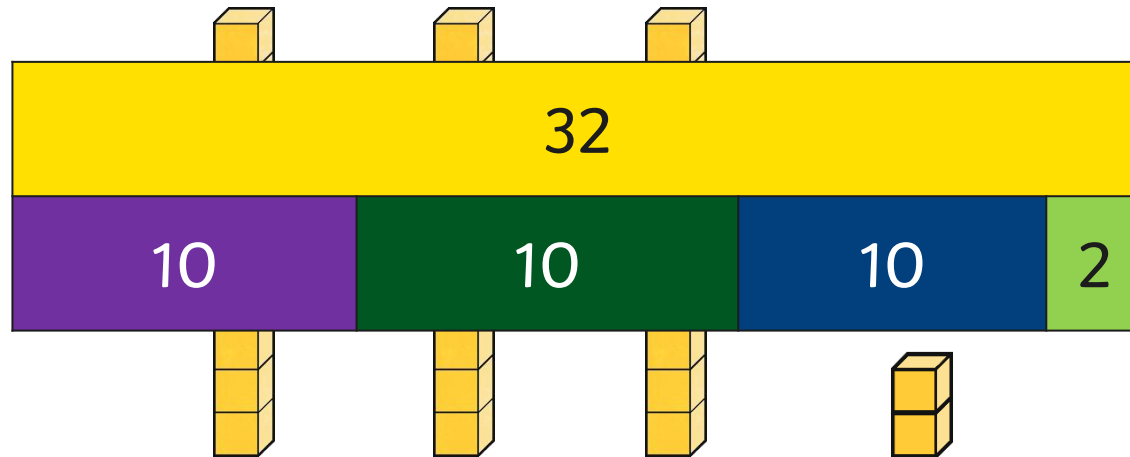
You can see there are the same numbers in each partitioning, just in a different order.

Let's Find Another Way



You can even partition 32 into four numbers!

$$32 = 10 + 10 + 10 + 2$$

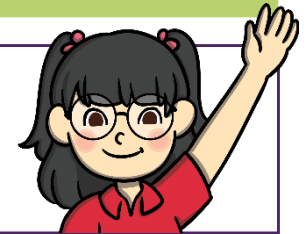


Let's Find Another Way



How many ways can you find to partition 45 into two numbers?

$$45 = \underline{\quad\quad} + \underline{\quad\quad}$$



Let's Find Another Way

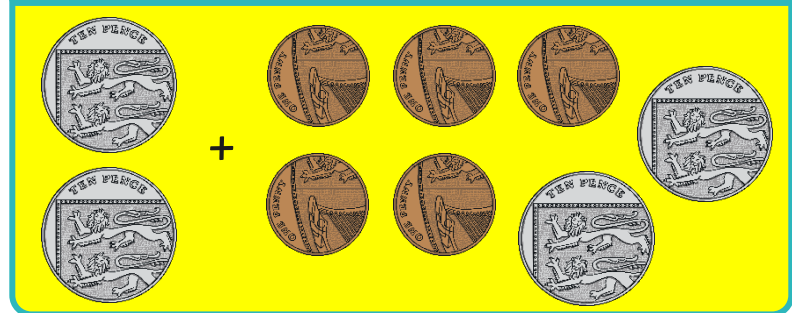


How did you partition 45 into two numbers?

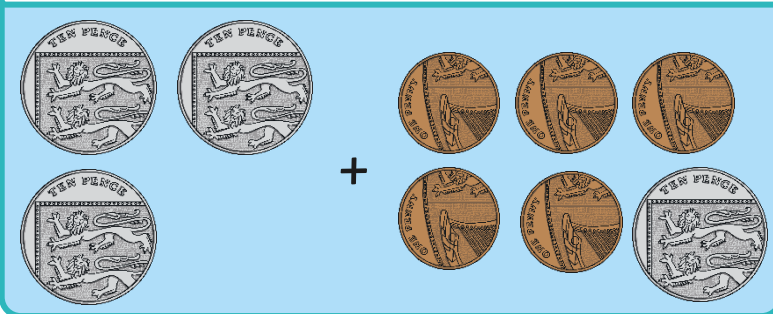
$$45 = 40 + 5$$



$$45 = 20 + 25$$



$$45 = 30 + 15$$



$$45 = 42 + 3$$



Did you have any different answers?

Let's Find Another Way



Can you find a way to partition 45 into three numbers?

$$45 = \underline{\quad} + \underline{\quad} + \underline{\quad}$$

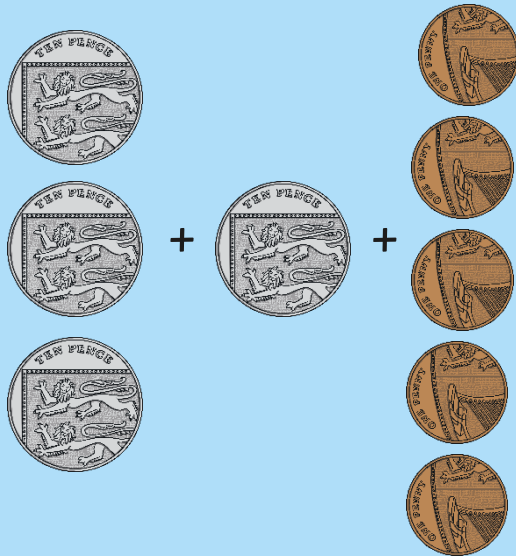


Let's Find Another Way

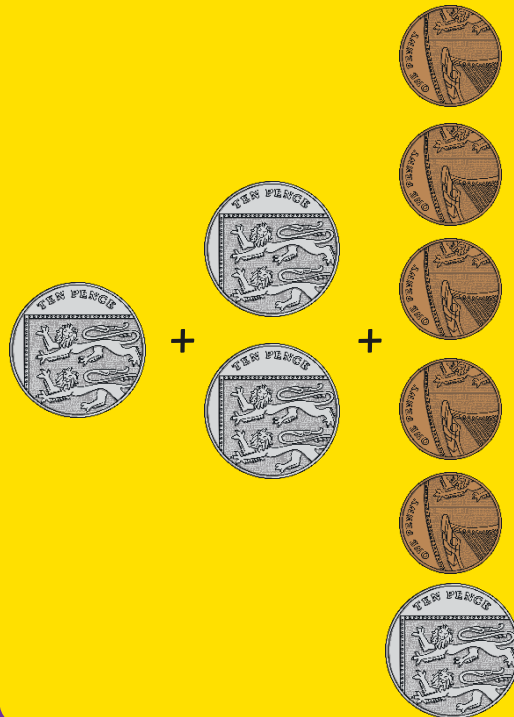


Here are some of the ways...

$$45 = 30 + 10 + 5$$



$$45 = 10 + 20 + 15$$



$$45 = 20 + 20 + 5$$



Let's Find Another Way



You can even split 45 into four numbers.

This is one way...

$$45 = 10 + 10 + 10 + 15$$

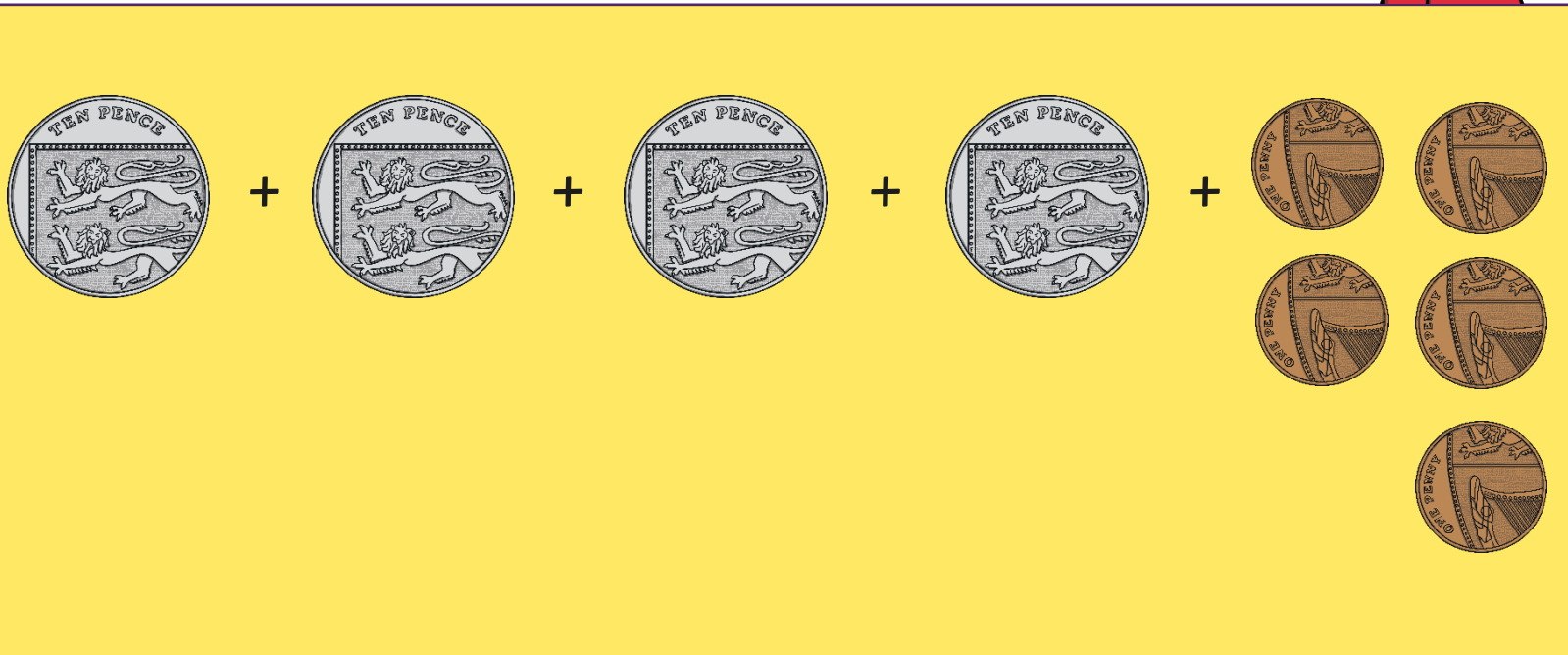


Let's Find Another Way

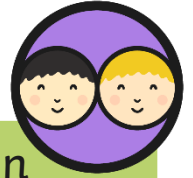


You can even split 45 into five numbers!

$$45 = 10 + 10 + 10 + 10 + 5$$



Find the Ways



Choose a two-digit number. How many ways can you partition it using equipment? Record your ways as calculations.

62

$$62 = 60 + 2$$

$$62 = 50 + 12$$

$$62 = 40 + 22$$

$$62 = 30 + 32$$

$$62 = 20 + 42$$

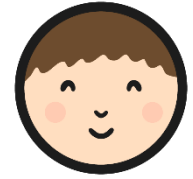
$$62 = 10 + 52$$

$$62 = 31 + 31$$

$$62 = 50 + 10 + 2$$



Partitioning in Different Ways



Can you partition numbers in different ways?

Partitioning Numbers

3. **SolveIt!**

a. Sam has partitioned the number 76. How has she partitioned it? Explain your answer.

b. Can you write your answer as a number sentence?

c. How else could Sam have partitioned 76? How many ways can you find?

Numbers

different ways.

the following numbers?

Method 3	Method 4

Numbers on a number line

1	1
---	---

Numbers

different ways.

the following numbers?

Method 3	Method 4

Numbers on a number line

1	1
---	---

Numbers

different ways.

the following numbers?

Method 3	Method 4

Numbers on a number line

1	1
---	---

Numbers

different ways.

the following numbers?

Method 3	Method 4


Numbers on a number line

1	1
---	---


Diving into Mastery

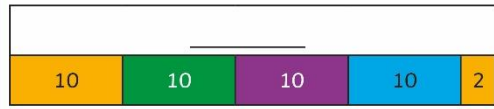
Dive in by completing your own activity!




Partitioning in Different Ways 

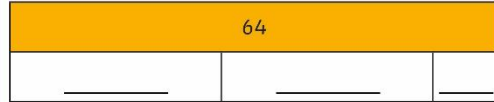
What number is each representation showing?





Can you complete the representations to show how these numbers have been partitioned?

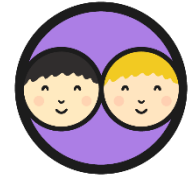




Partition your own number in the bar model.



Guess My Number



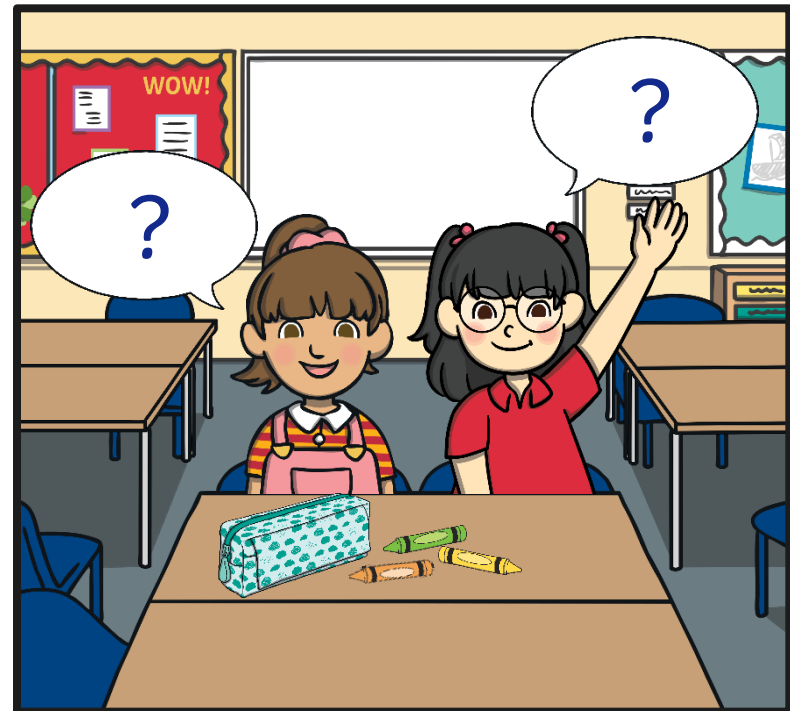
Can you guess what number your partner is thinking of?

Is it larger
than...?

Is it smaller
than...?

Is it an even
number?

Is it an odd
number?



Will you be the quickest to guess?



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Aim

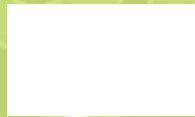


- To partition two-digit numbers in different ways.

Success Criteria

- I can say what the value of each digit is in a two-digit number.
- I can partition a two-digit number into tens and ones.
- I can partition two-digit numbers in more than one way.

765.395289873
991 6789 78 096
8562 853 2234
309 31 238 948
9 5698 435 -31
63 567 892 2.548



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