Our Maths Learning Journey

Key vocabulary:

1 more than

1 less than

Tens

Ones

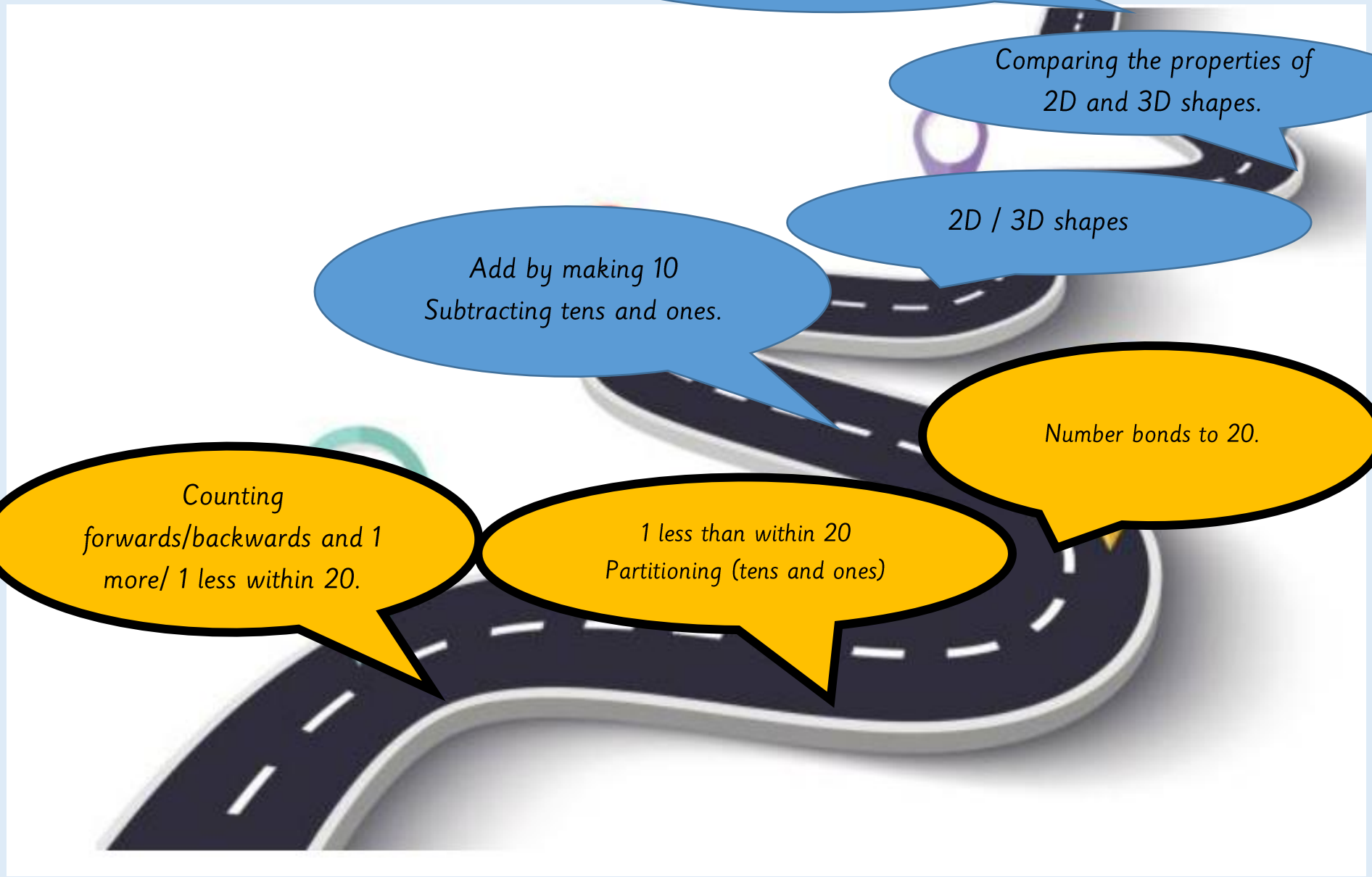
Subtracting

Addition

2D shapes

3D shapes

Comparing 2D and 3D shapes.





Complete the number bonds to 20.

1 + ☐ = 20

2 + ☐ = 20

3 + ☐ = 20

11 + ☐ = 20

12 + ☐ = 20

13 + ☐ = 20

☐ + 9 = 20

☐ + 19 = 20



How are the bonds linked?

Can you find any other bonds to 20?





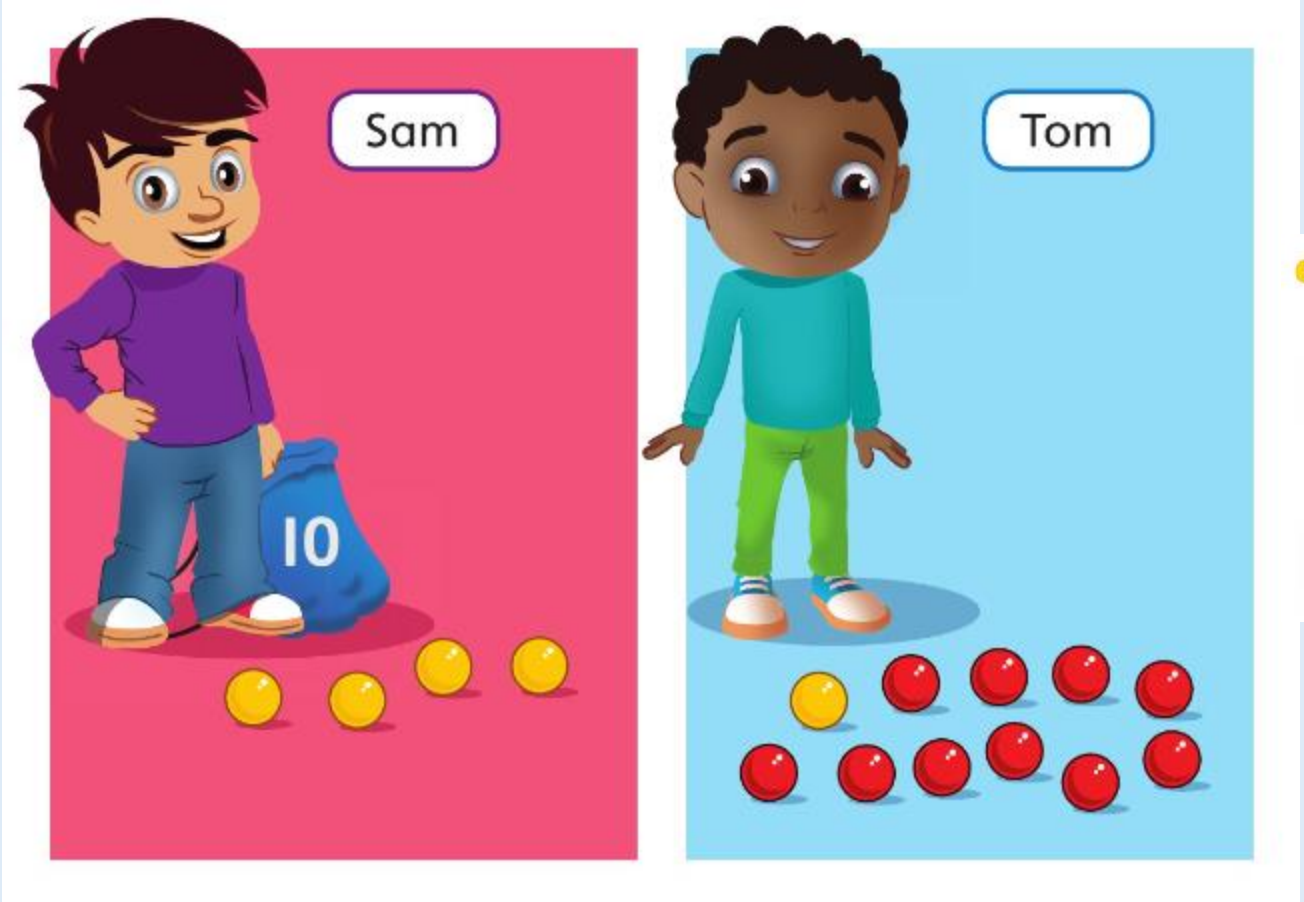
Monday 16th November 2026

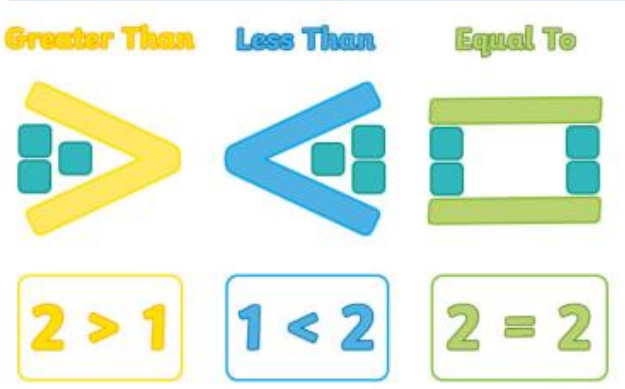
16.11.2026

Review: Can I compare groups of objects?

TPs: Sam has _____.

TPs: Tom has _____.





Stem sentence:

____ is ____ than ____, so _____ has more than ____.

16.11.2026



LQ: Can I explore tens and ones?

Steps to success

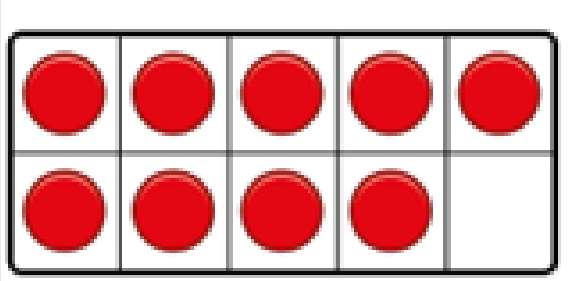


I can partition the numbers into tens and ones.

I can show a number from 11 to 20 as tens and ones using concrete objects (e.g. 16 is made up of 1 ten and 6 ones).

Star words

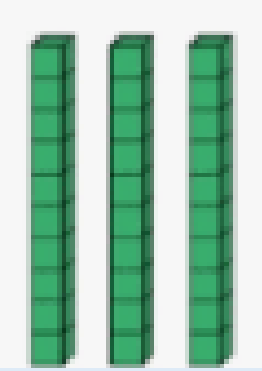
tens frame



dienes



tens



ones



partition

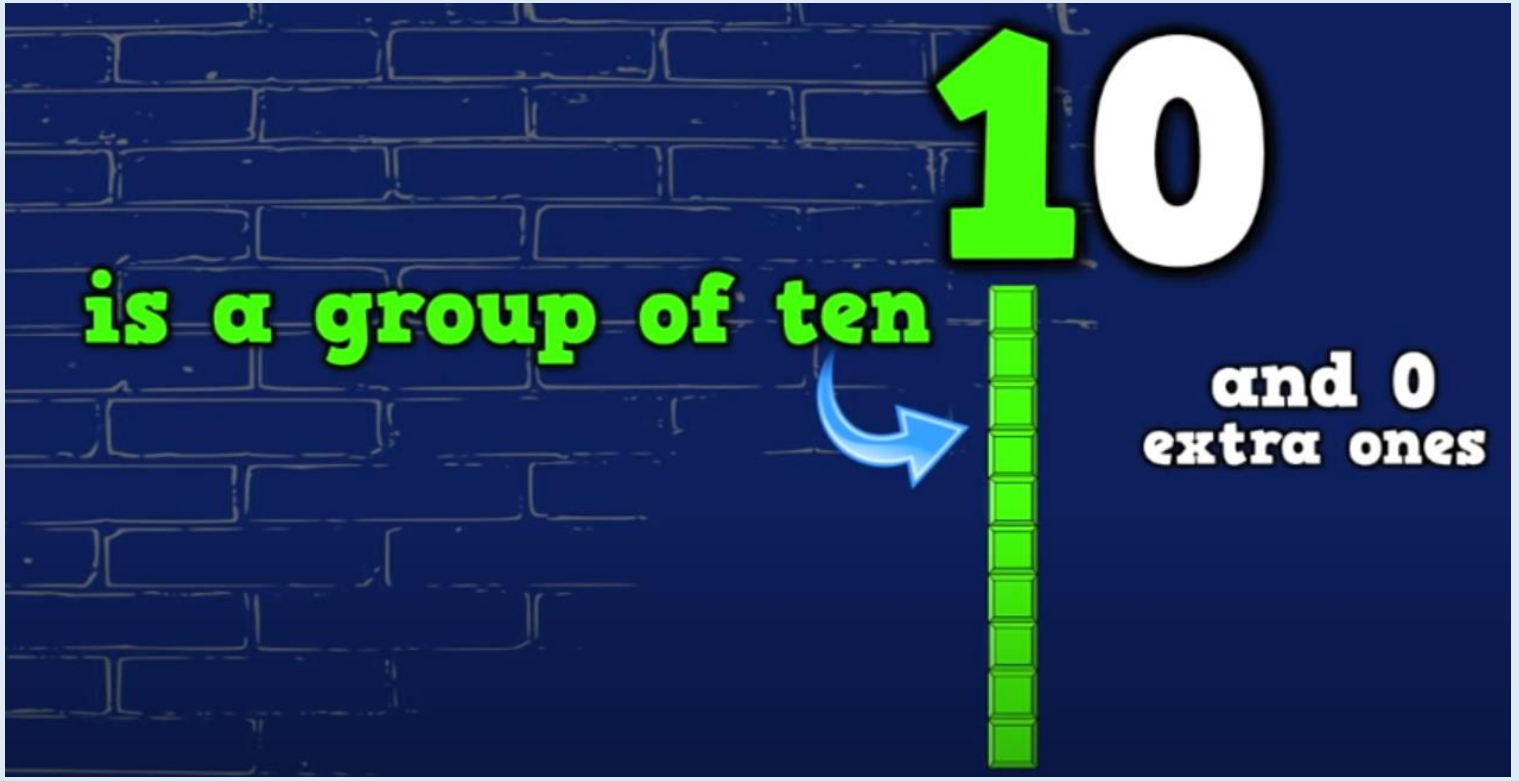
13

tens	ones
1	3

LQ: Can I explore tens and ones?

16.11.2026

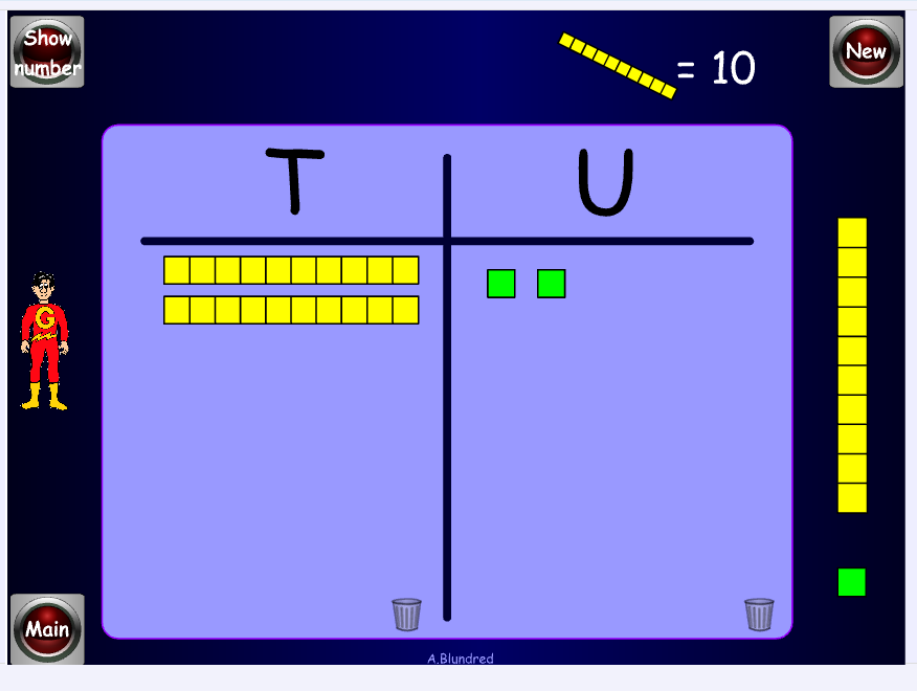
Today we are going to explore tens and ones.



https://www.youtube.com/watch?v=uedvwH6Ay18

LQ: Can I explore tens and ones?

16.11.2026



https://www.topmarks.co.uk/Flash.aspx?f=diennesandcoinsv3

Stem sentence:

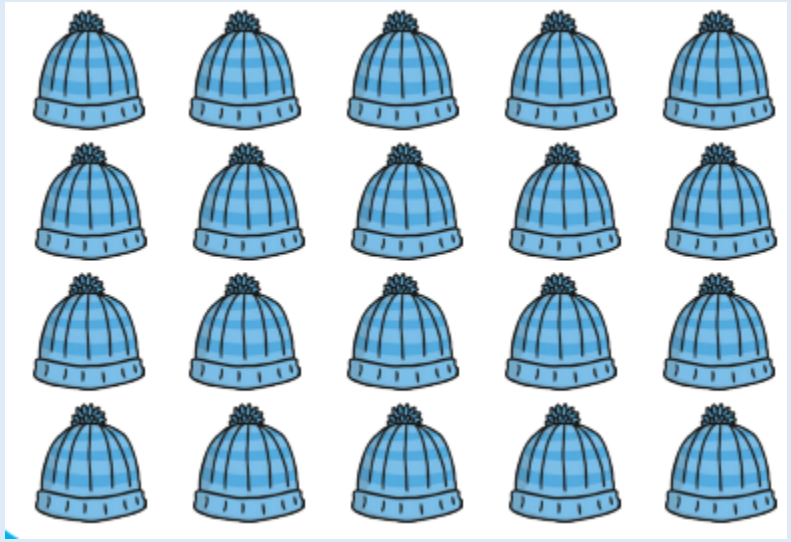
There are ____ tens.

There are ____ ones.

CT to drag the tens and ones and children to say the sentence to match.

LQ: Can I explore tens and ones?

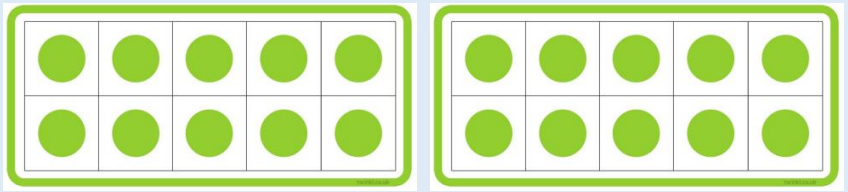
16.11.2026



How many hats are there?

How many tens?

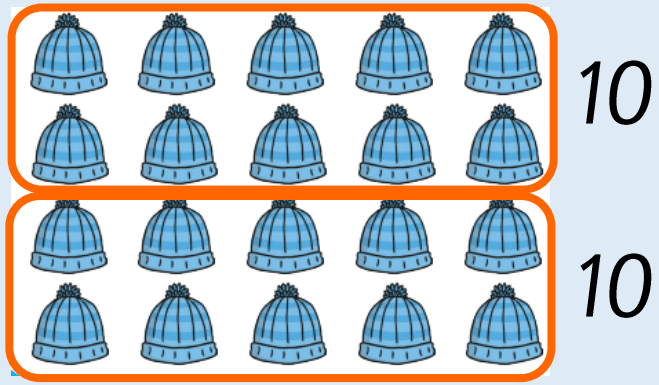
How many ones?



Stem sentence:

There are ____ tens.

There are ____ ones.





LQ: Can I explore tens and ones?

16.11.2026

How many stars are there?

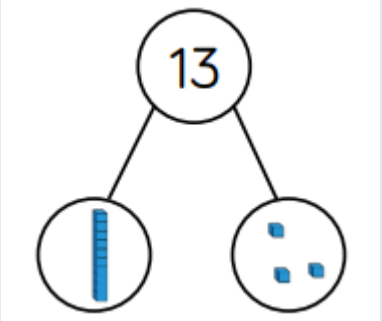
How many tens?

How many ones?

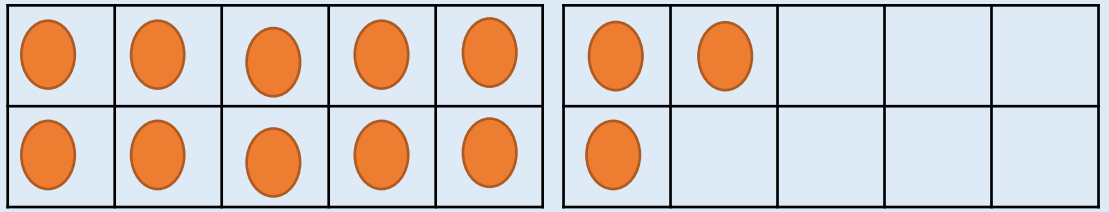
Stem sentence:

There are ____ tens.

There are ____ ones.







LQ: Can I explore tens and ones?

16.11.2026

Joe says,

"There is 1 ten and 2 ones in 20."

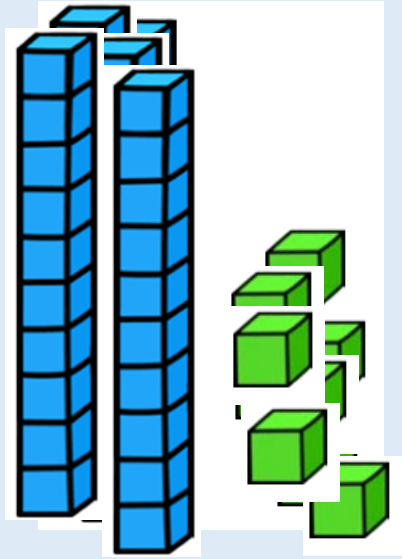
Is he correct?

Explain your answer?

Let's place dienes on the place value grid to work it out.

tens	ones

TPs: How many tens?



TPs: How many ones?

Stem sentence:

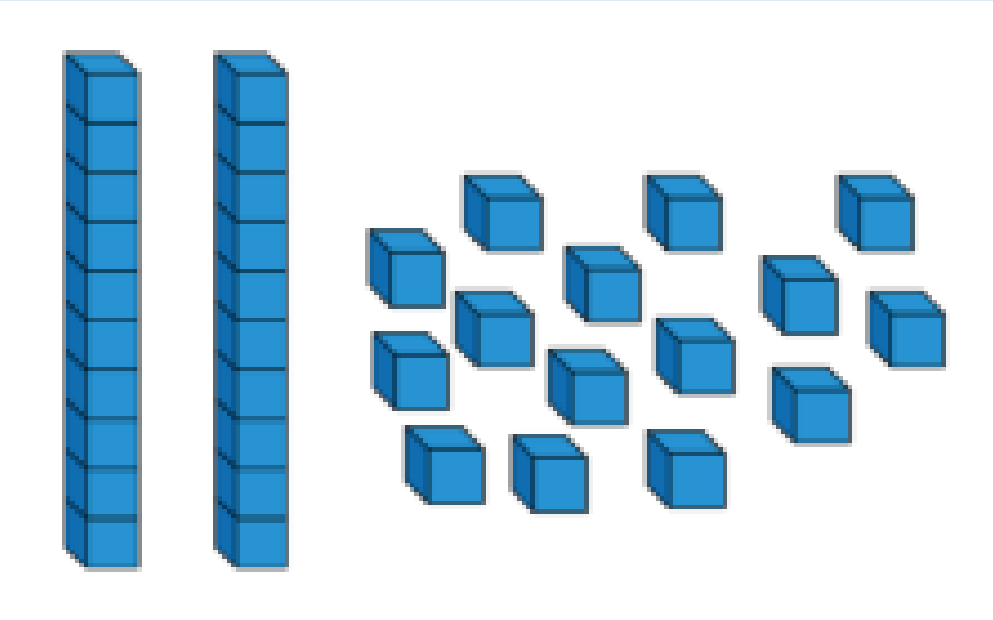
There are ____ tens.

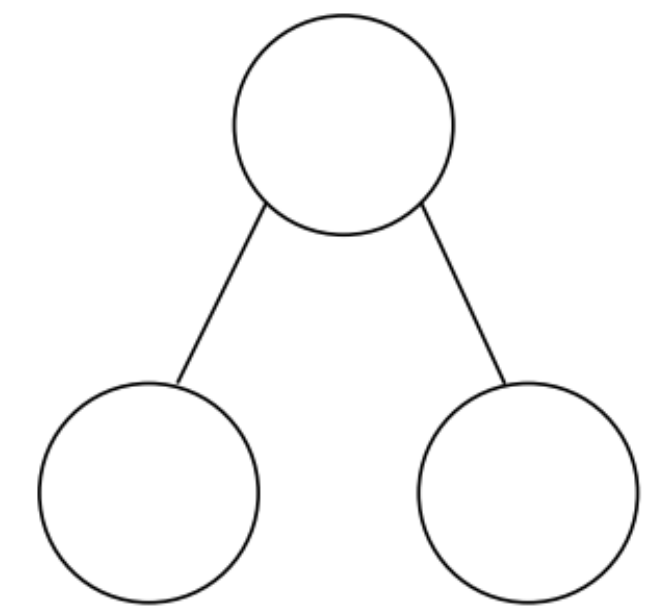
There are ____ ones.

LQ: Can I explore tens and ones?

16.11.2026

Here are some dienes.





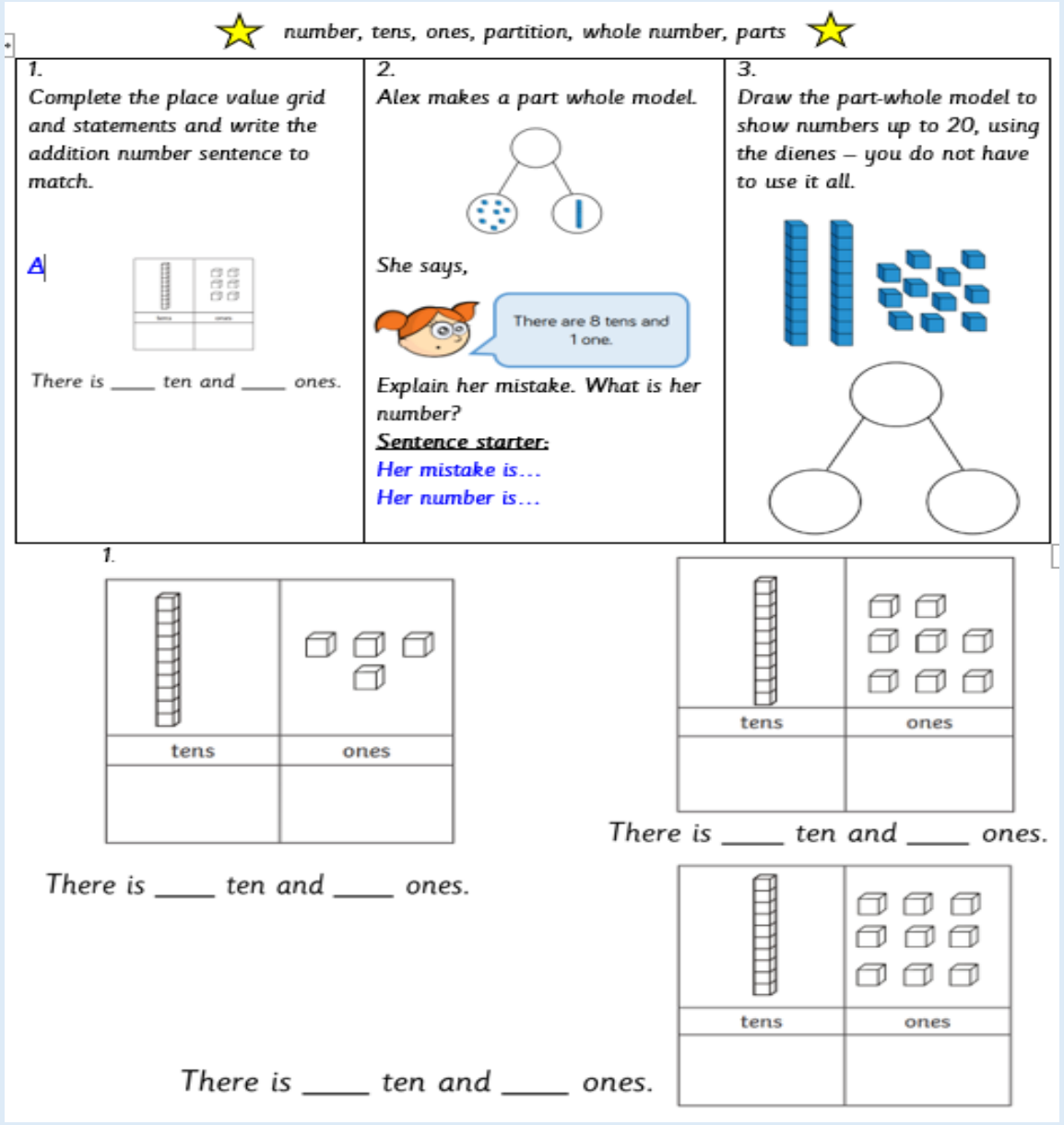
How many ways can you complete the part-whole model to show numbers up to 20, using the dienes?

You do not have to use all the dienes.

LQ: Can I explore tens and ones?

Task

16.11.2026



★ number, tens, ones, partition, whole number, parts ★

1. Complete the place value grid and statements and write the addition number sentence to match.

A

There is ____ ten and ____ ones.

2. Alex makes a part whole model.

She says,

There are 8 tens and 1 one.

Explain her mistake. What is her number?

Sentence starter:

Her mistake is…

Her number is…

3. Draw the part-whole model to show numbers up to 20, using the dienes – you do not have to use it all.

1.

tens | ones

There is ____ ten and ____ ones.

tens | ones

There is ____ ten and ____ ones.

tens | ones

There is ____ ten and ____ ones.

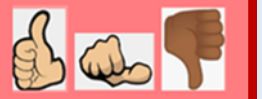
09.11.26	I	WS
L.Q. Can I explore tens and ones?	1	2 3

Today we represented teens numbers using dienes and a place value grid. We worked in a small group to pick a number card and used the tens and ones to represent that number. As a challenge we represented numbers from 1-20, remembering to represent ones and tens correctly.

Photo and child's voice as evidence.

Self assessment

Do you understand the tasks?

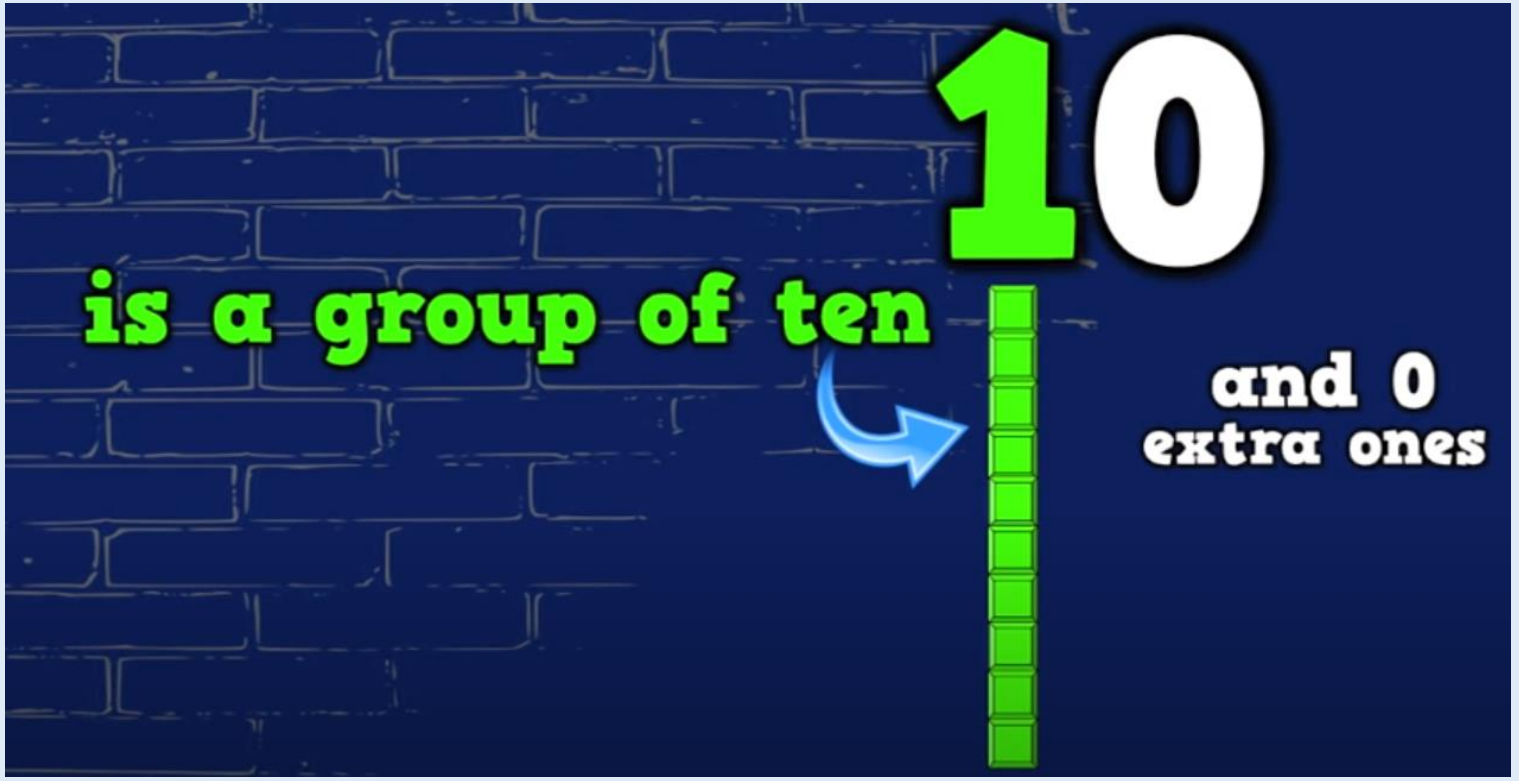


Tuesday 17th November 2026

LQ: Can I explore tens and ones?

17.11.2026

Today we are going to explore tens and ones.



https://www.youtube.com/watch?v=uedvwH6Ay18

17.11.2026



LQ: Can I explore tens and ones?

Steps to success



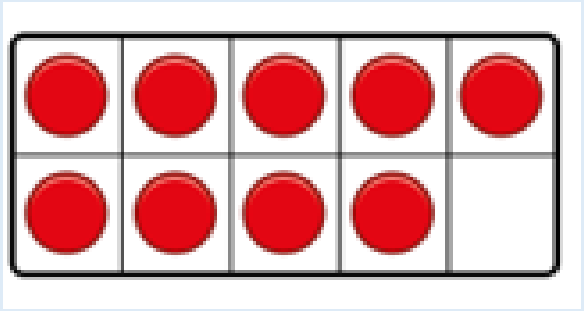
I can partition the numbers into tens and ones.

I can show a number from 11 to 20 as tens and ones using concrete objects (e.g. 16 is made up of 1 ten and 6 ones).

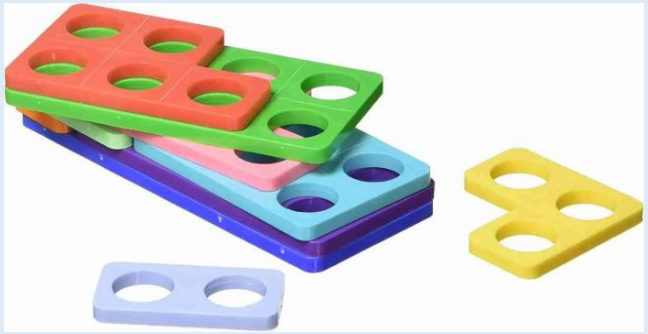
I can find number bonds to 20, such as 19 + 1 and 5 + 15.

Star words

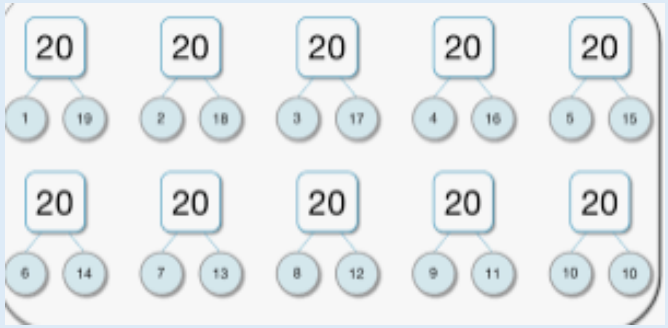
tens frame



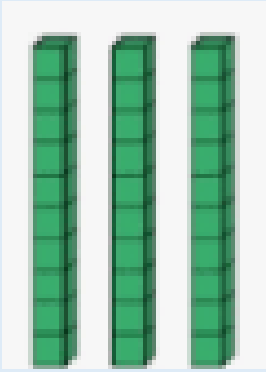
Numicon



number bonds



tens



ones



partition

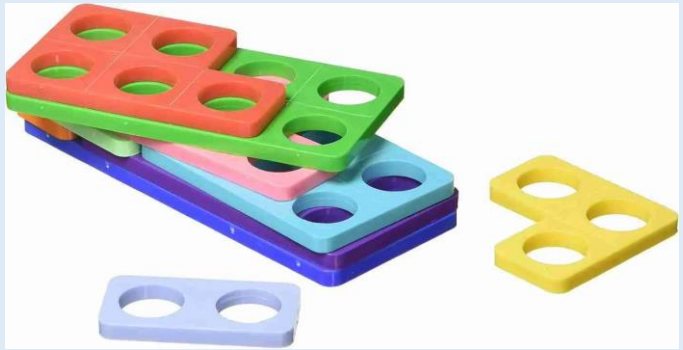
13

tens	ones
1	3

LQ: Can I explore tens and ones?

17.11.2026

Today, we will use Numicon to explore number bonds to 20.



1 Work with a partner.

2 Carefully follow the instructions.

3 Work together to find the answers using Numicon, and check them.

4 Take turns to write the number sentence on a whiteboard.

5 When you are ready, show the teacher your whiteboard.

6 Be ready to explain your answer to the class.



LQ: Can I explore tens and ones?

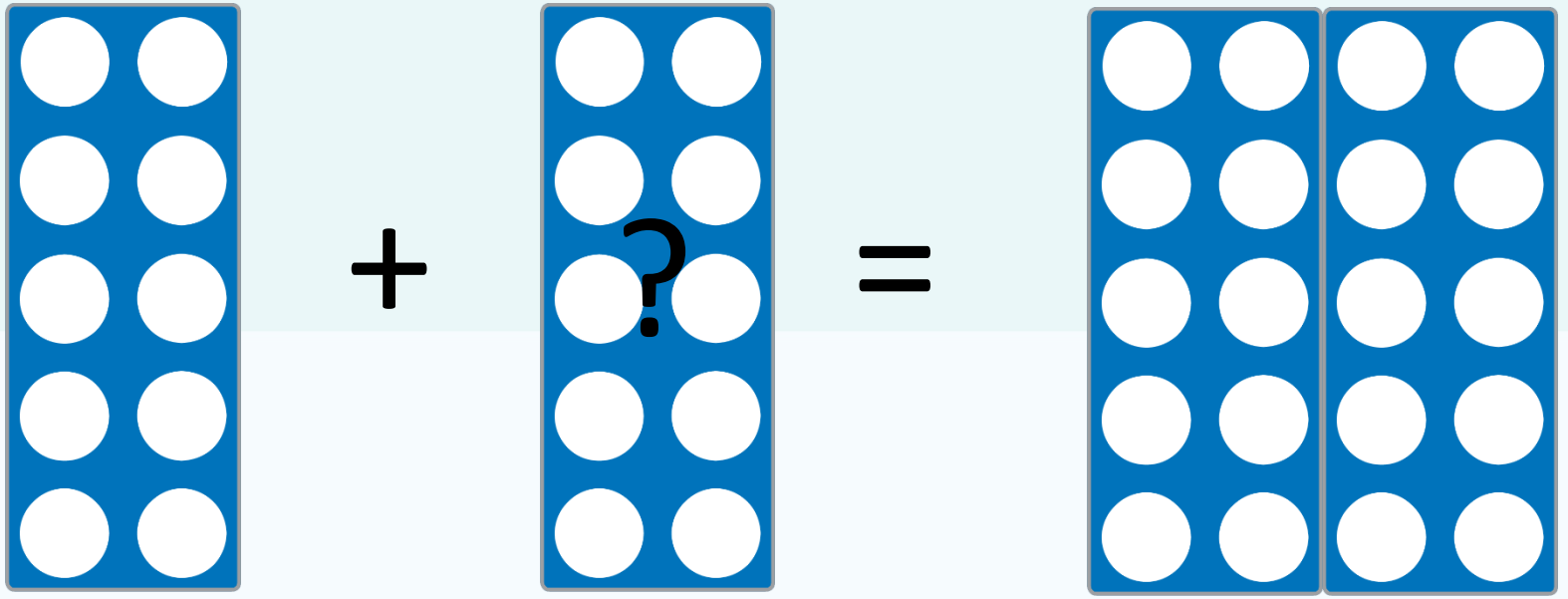
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



10 + 10 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

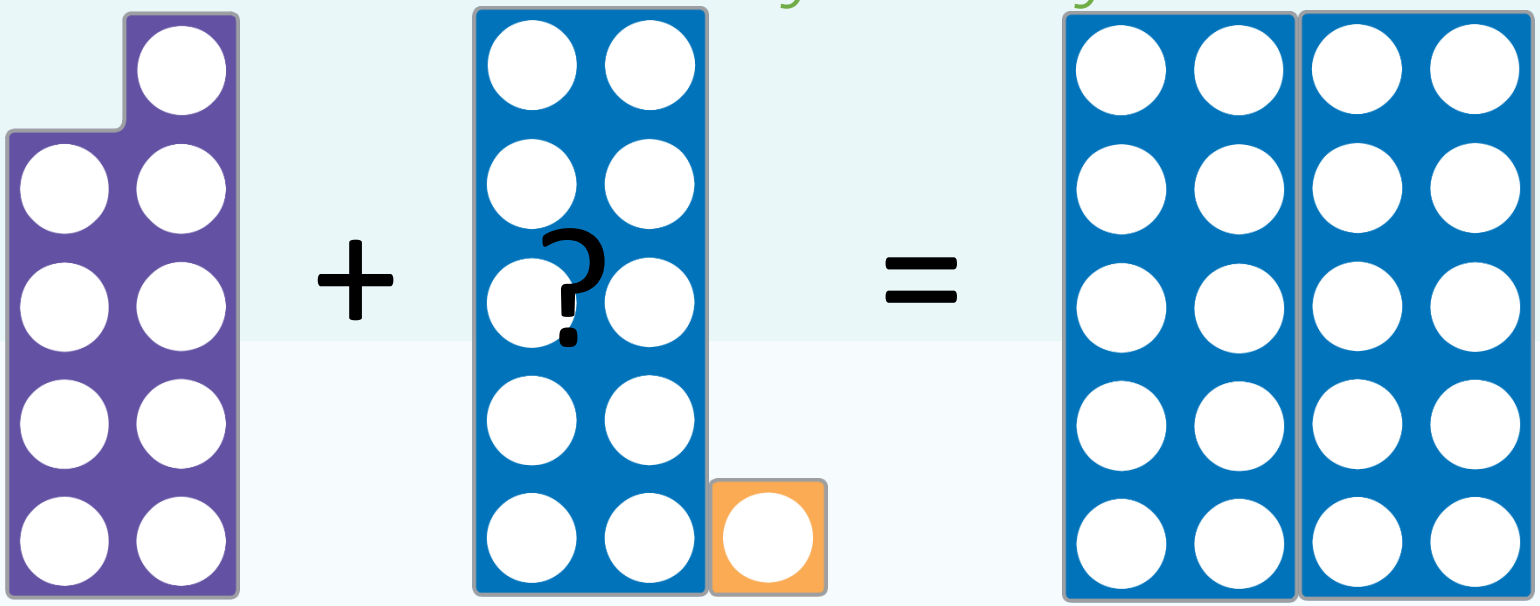
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



Stem sentence:

9 + 11 = 20

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

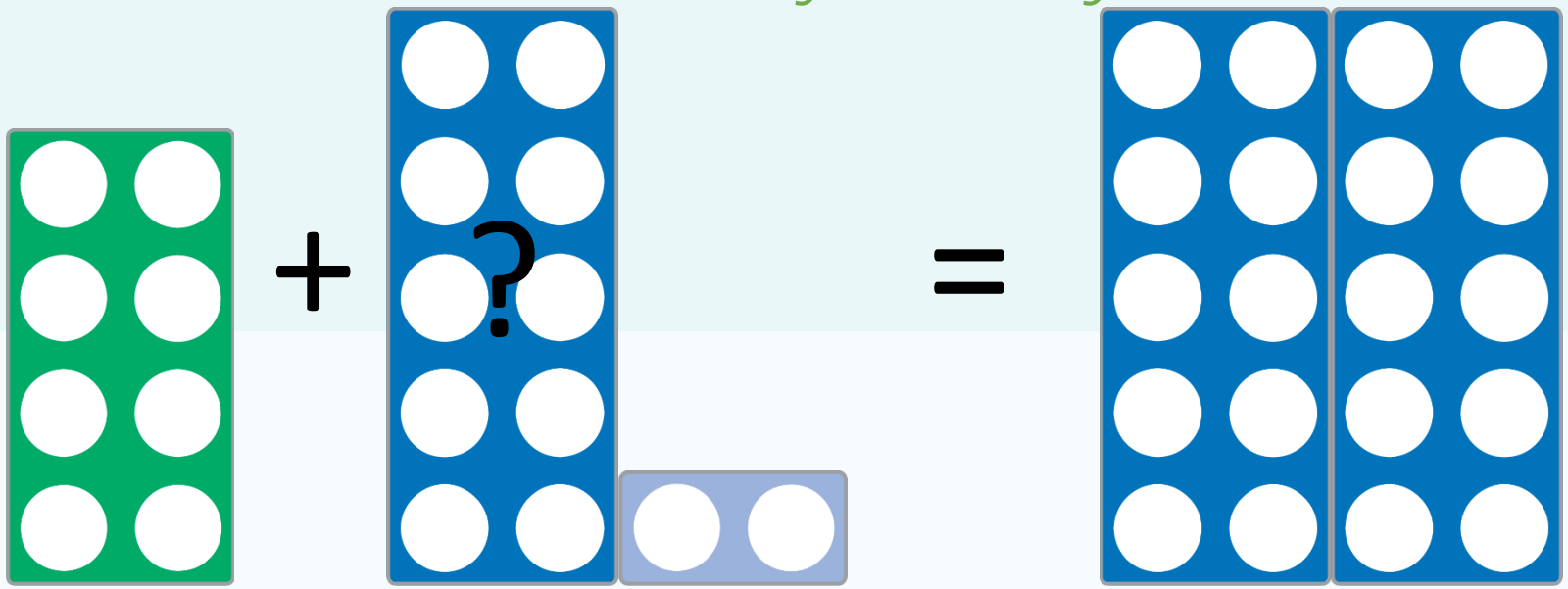
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



8 + 12 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

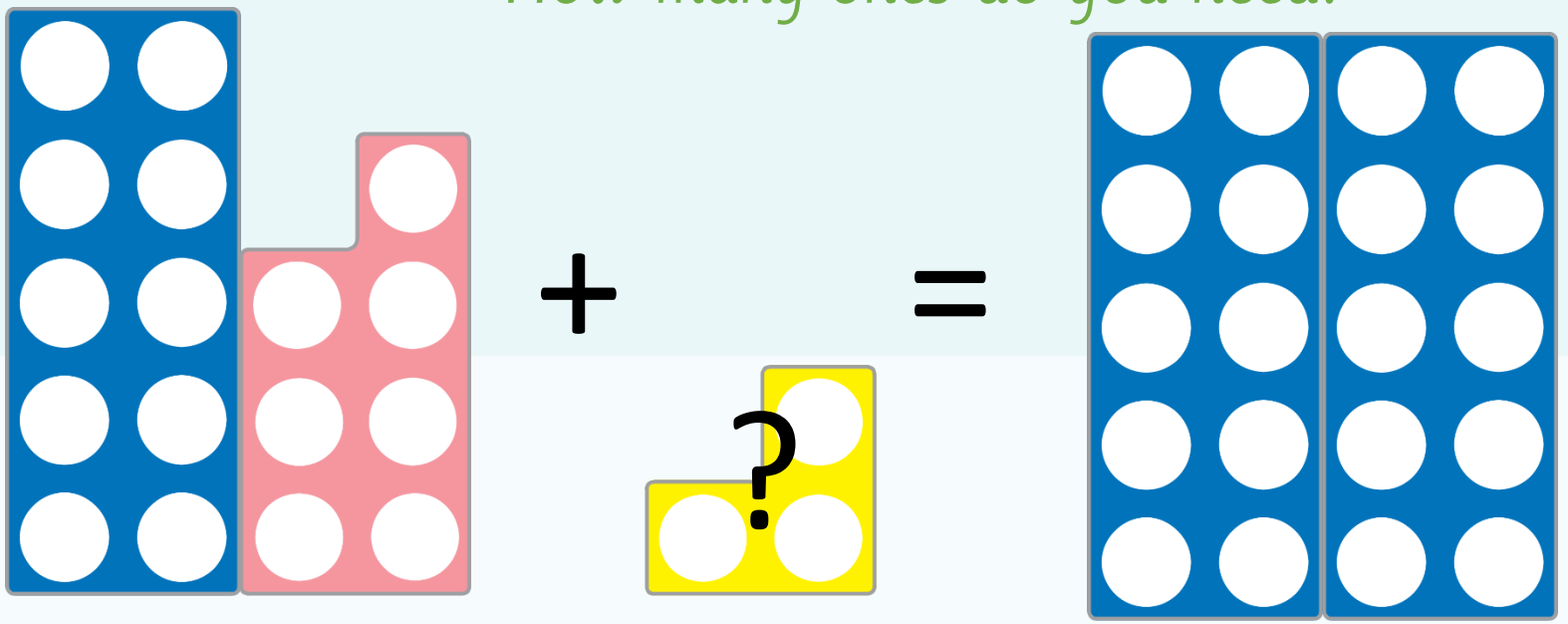
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



Stem sentence:

17 + 3 = 20

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

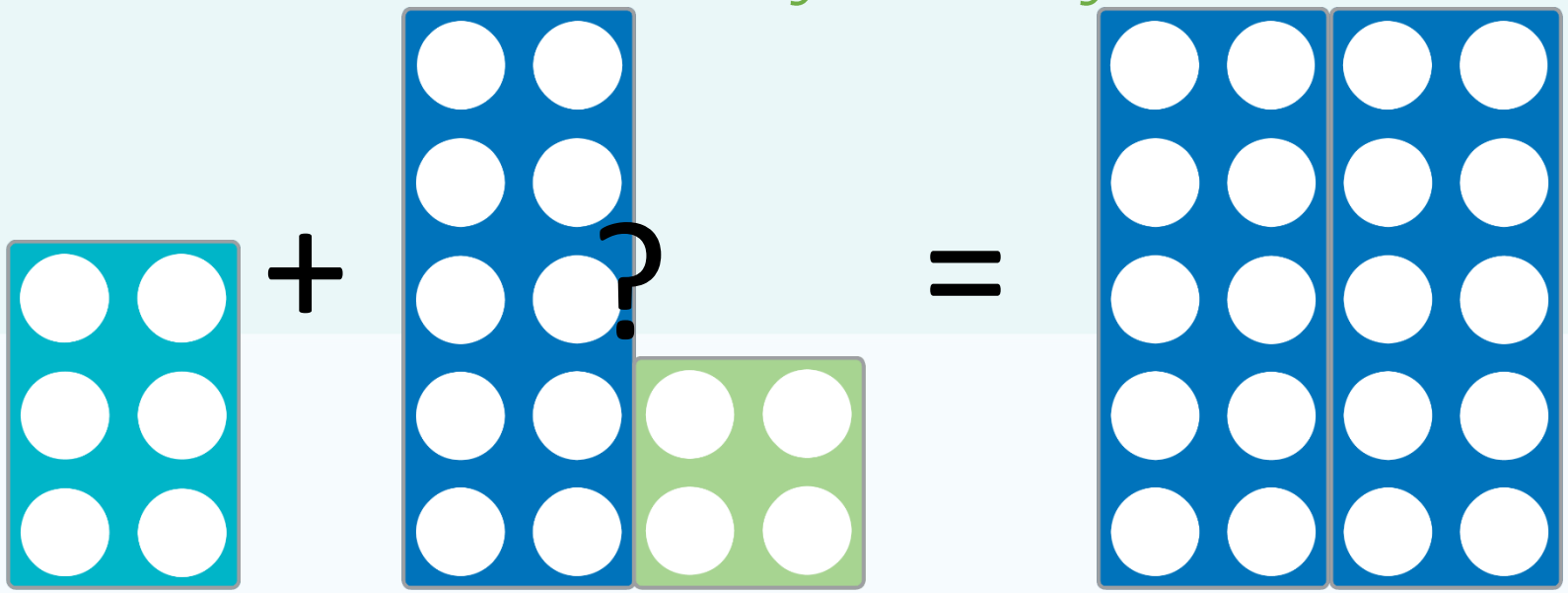
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



6 + 14 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

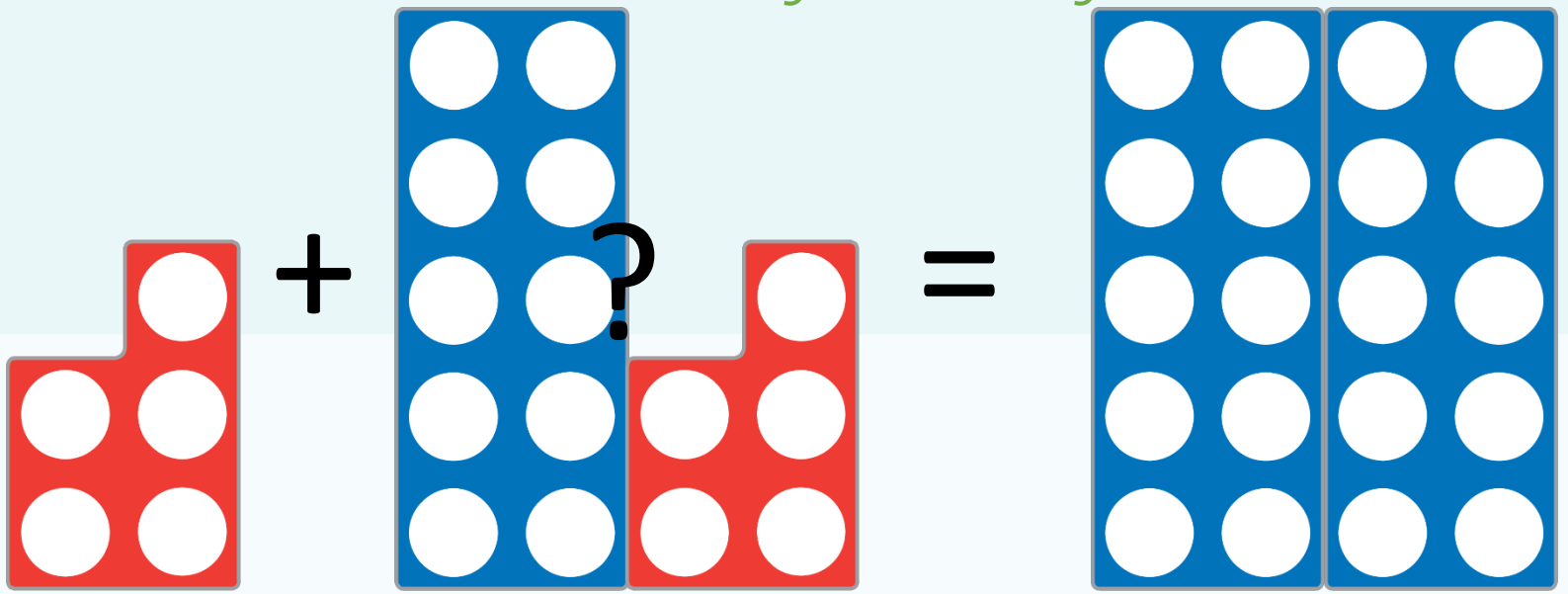
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



5 + 15 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

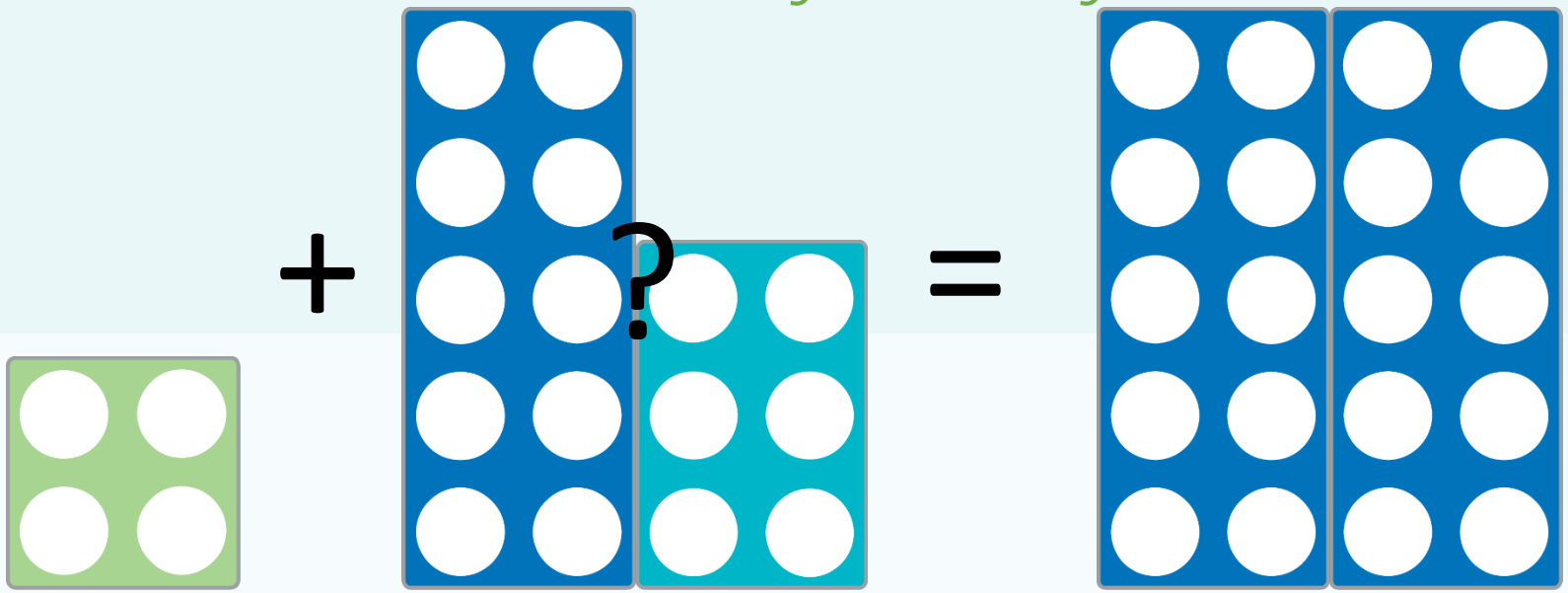
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



4 + 16 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

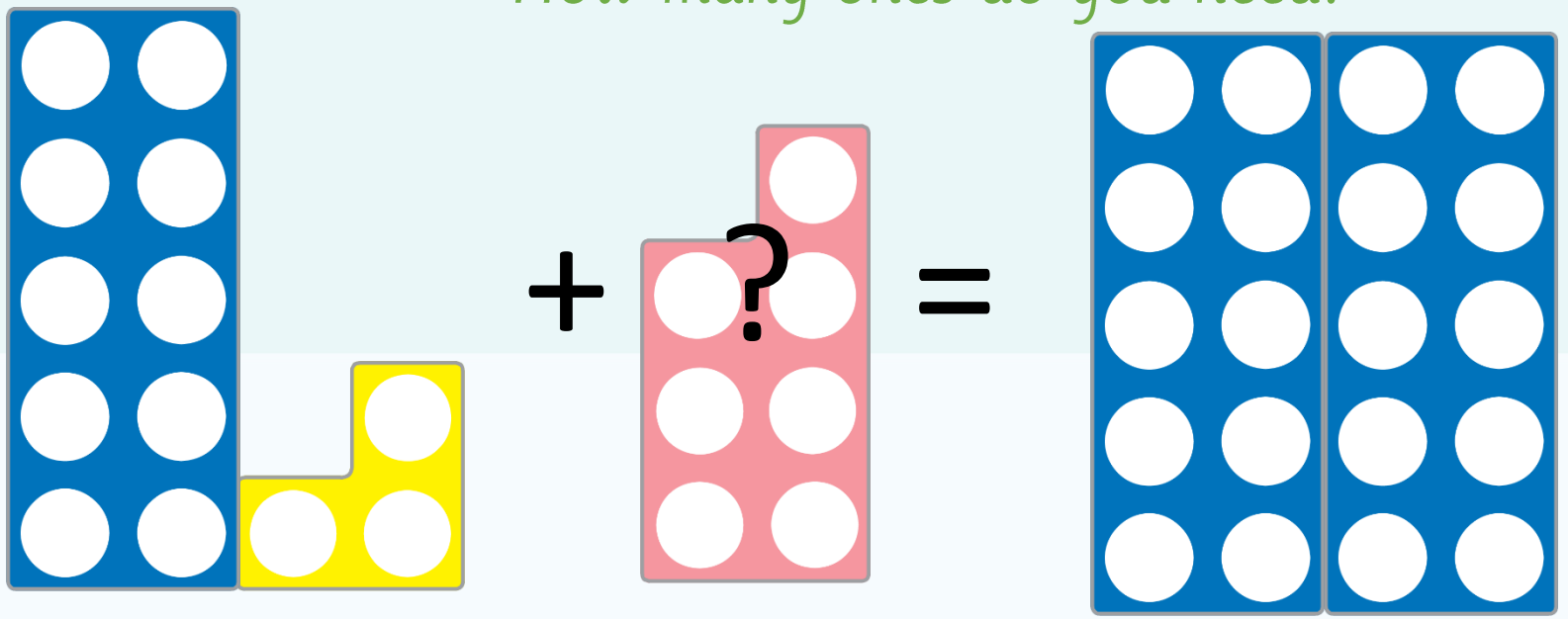
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



Stem sentence:

13 + 7 = 20

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

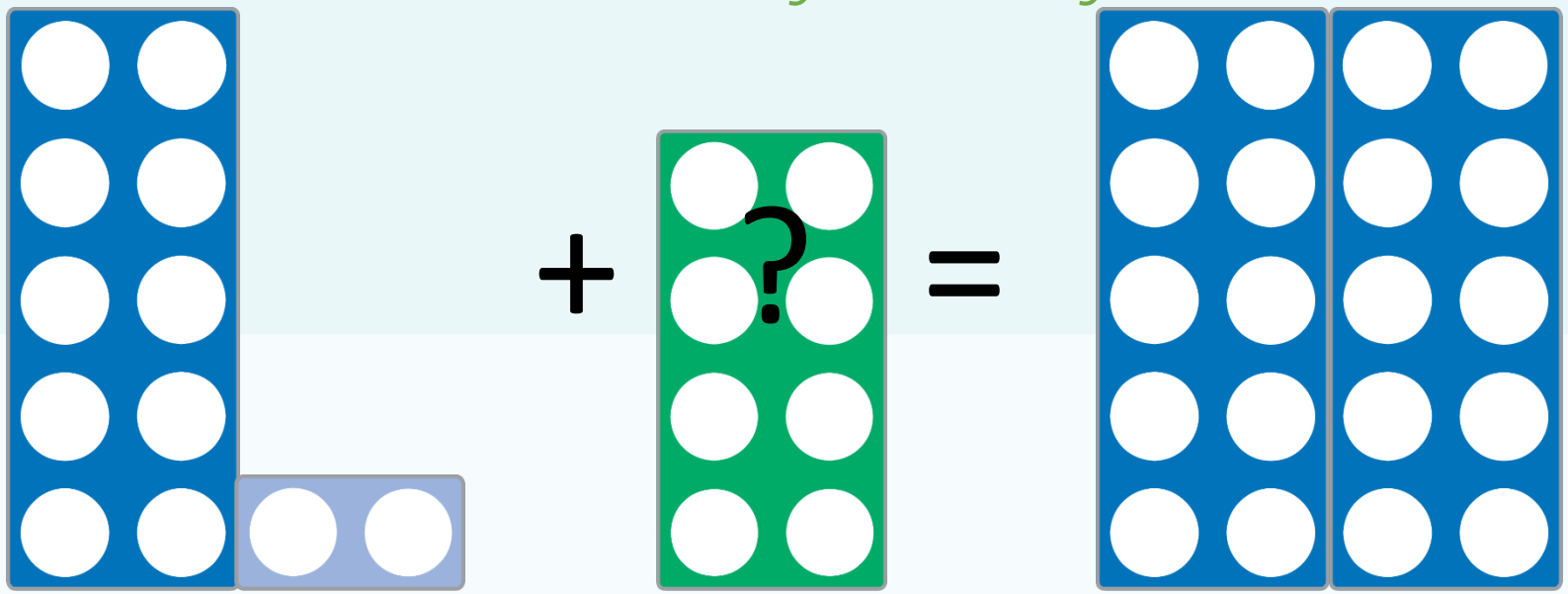
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



12 + 8 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

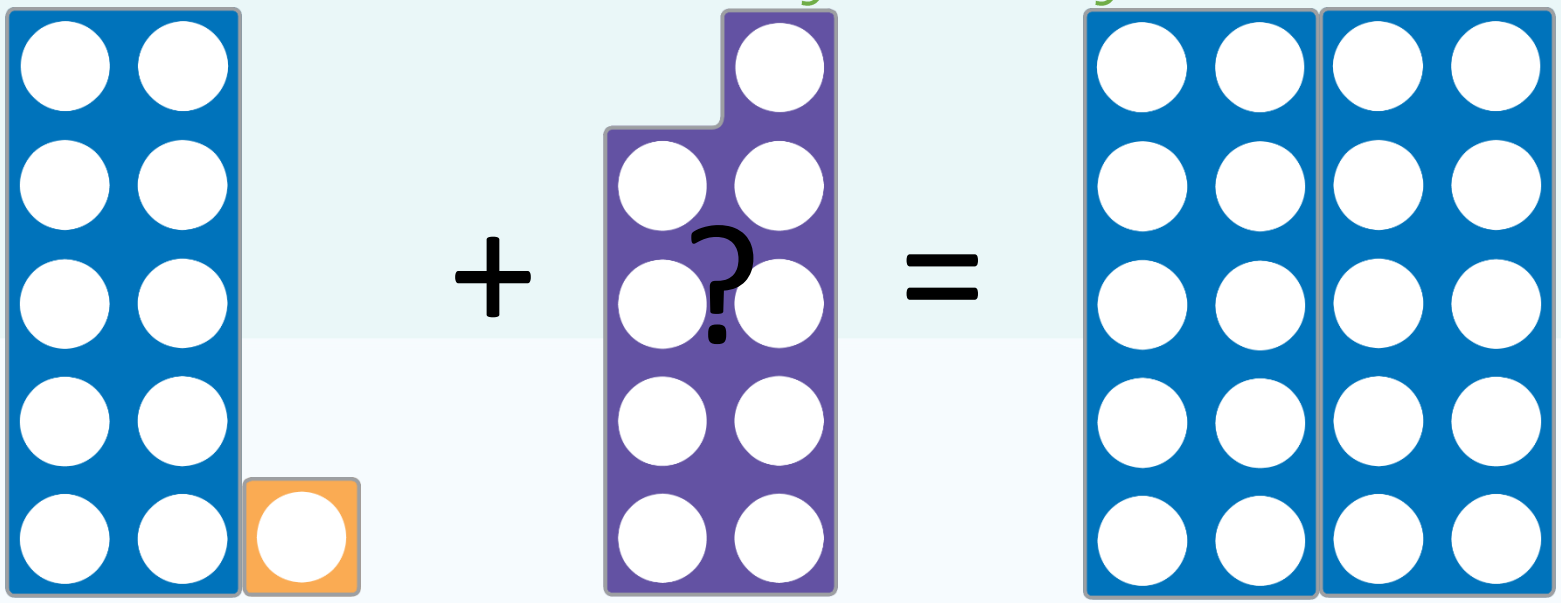
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



11 + 9 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

LQ: Can I explore tens and ones?

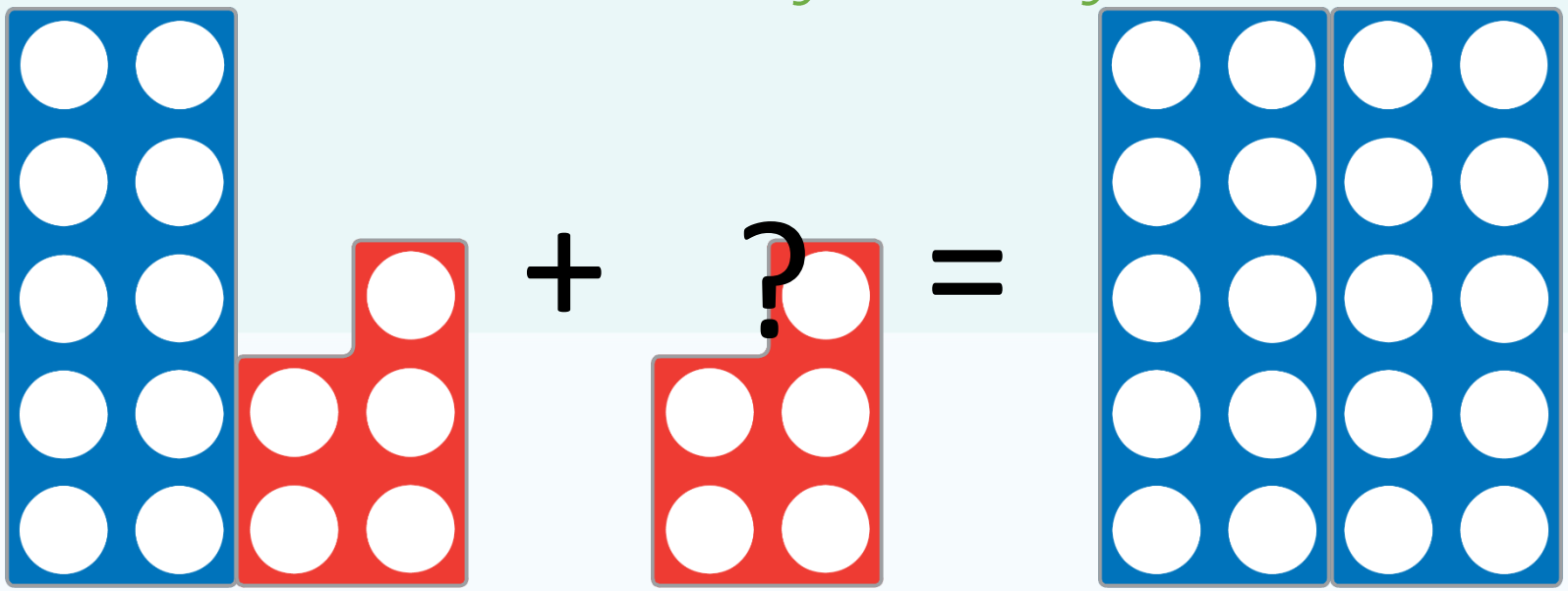
17.11.2026

Hide Answer

Numicon Shapes to 20

TPs: How many tens do you need?

How many ones do you need?



15 + 5 = 20

Stem sentence:

There are ____ tens.

There are ____ ones.

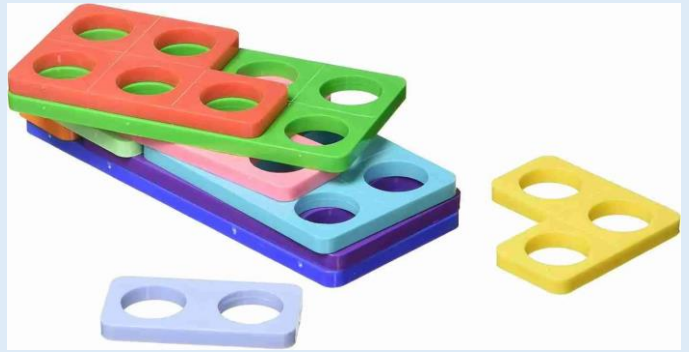
LQ: Can I explore tens and ones?

17.11.2026

Task

Now, try to find all the number bonds to 20 and write them on your own whiteboard. Use Numicon to help you.

0+__=20	8+__=20	16+__=20
1+__=20	9+__=20	17+__=20
2+__=20	10+__=20	18+__=20
3+__=20	11+__=20	19+__=20
4+__=20	12+__=20	20+__=20
5+__=20	13+__=20	
6+__=20	14+__=20	
7+__=20	15+__=20	







Wednesday 18th November 2026

LQ. Can I compare numbers?

18.11.2026

16	10

TPs – Complete these stem sentences:

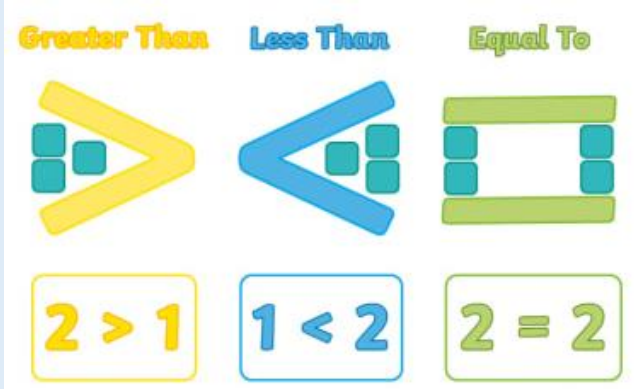
_____ is greater than _____.

_____ is equal to _____.

:_____ is less than _____.

9	8

20	20



18.11.2026



LQ. Can I explore number bonds to 20?

Steps to success

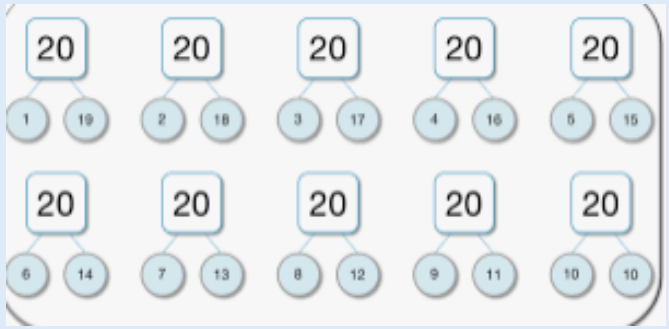


I can say bonds to 20 using my knowledge of number bonds to 10.

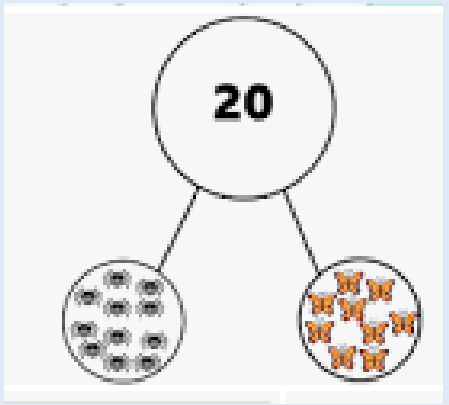
I can recall common bonds to 20, such as 10 + 10, 1 + 19, 5 + 15.

Star words

Number bonds



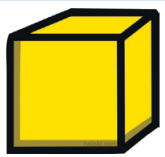
Part whole



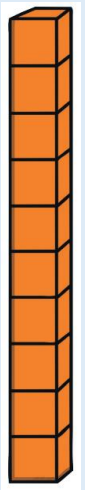
place value grid

Tens	Ones

ones



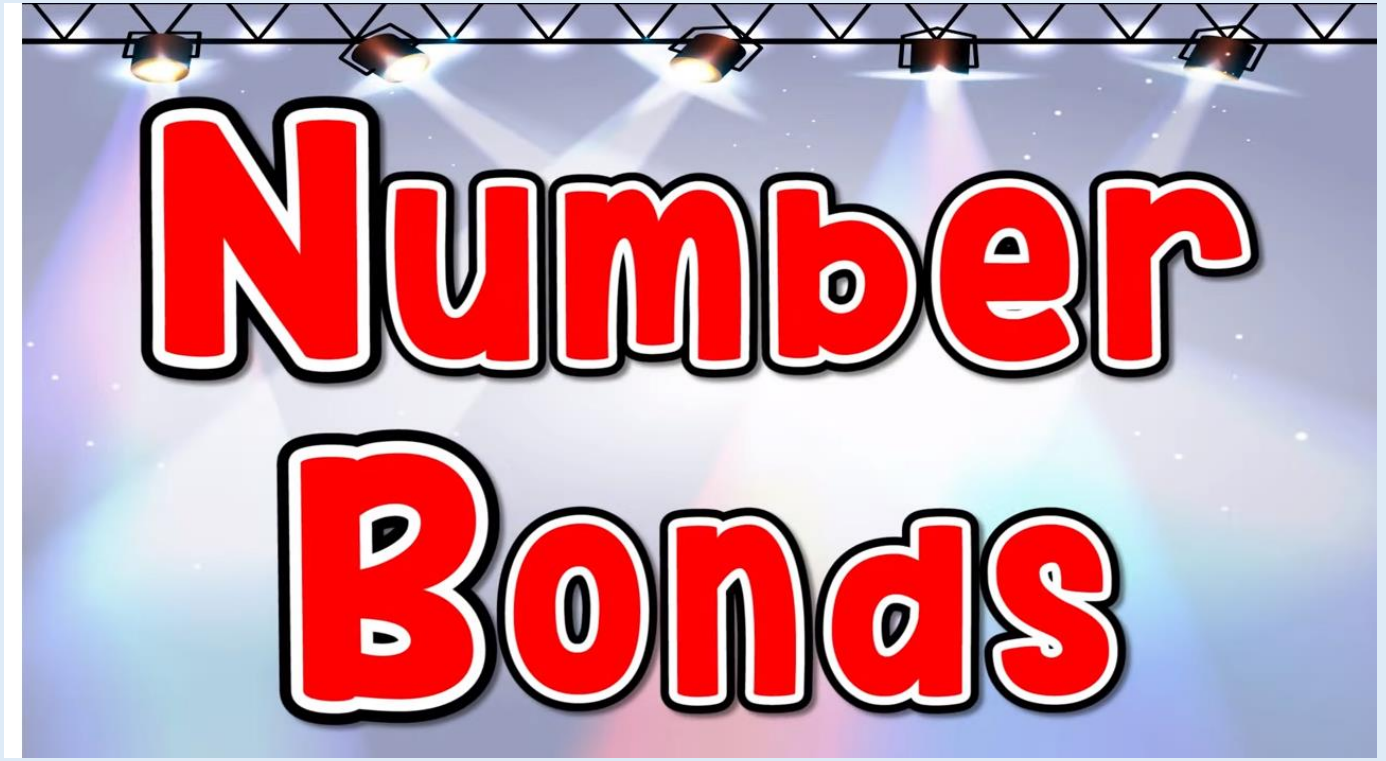
tens



18.11.2026

Review: Can I explore number bonds to 10?

https://www.youtube.com/watch?v=lD9tjBUiXs0



TPs: ____ and ____ makes 10.

L.Q. Can I explore number bonds to 20?

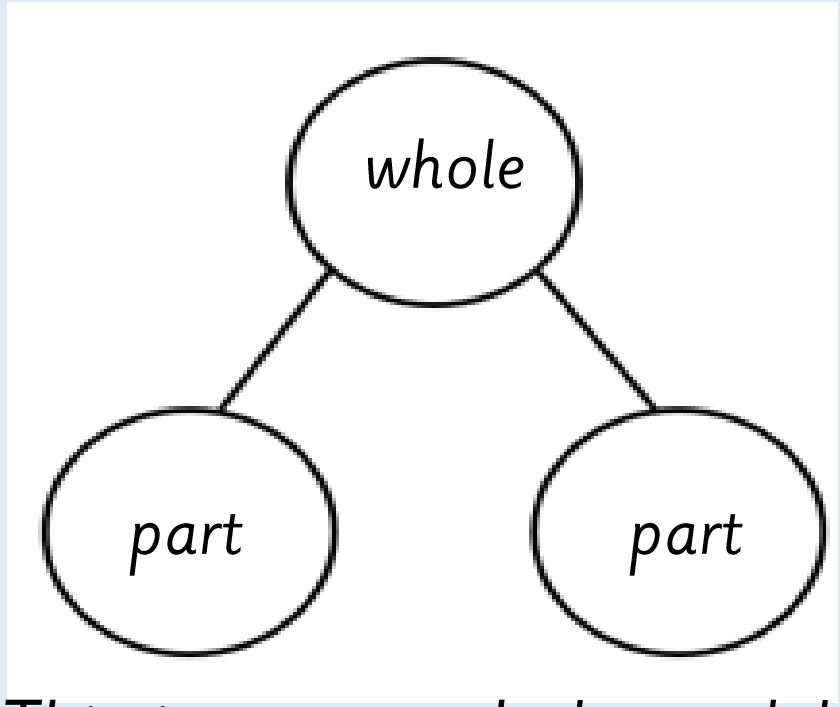
18.11.2026

TPs: What is this model called?

Stem sentence:

There are ____ tens.

There are ____ ones.



This is a part whole model.

It has two parts and one whole.

The whole number is partitioned into two parts.

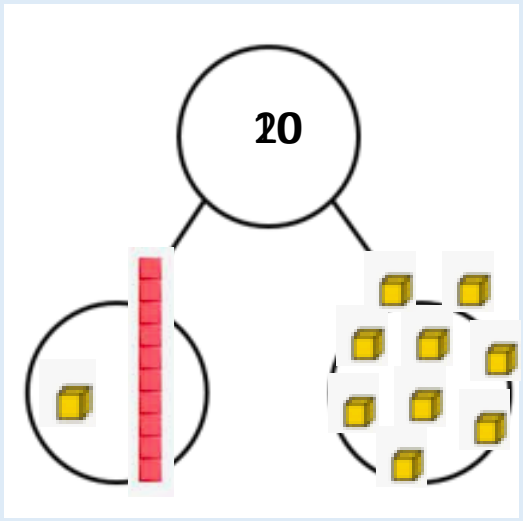
L.Q. Can I explore number bonds to 20?

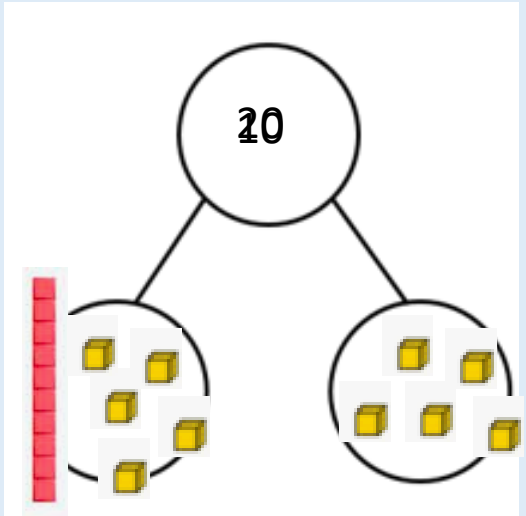
18.11.2026

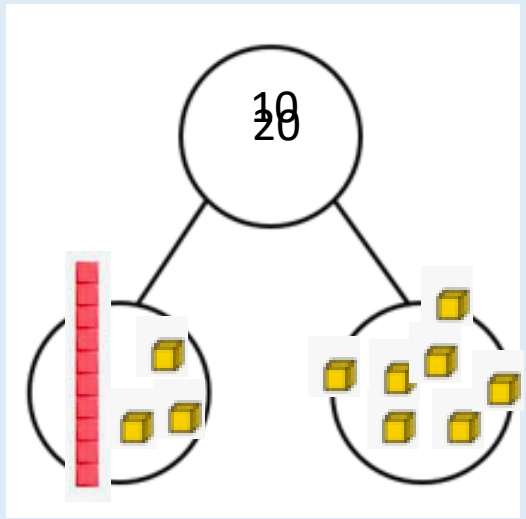
To find number bonds to 20 you have to add 10 each time to the first digit.

We already know our number bonds to 10!

1 + 9 = 10	5 + 5 = 10	3 + 7 = 10
11 + 9 = 20	15 + 5 = 20	13 + 7 = 20







L.Q. Can I explore number bonds to 20?

18.11.2026



Lets focus on the circled cartons.
Work out the 2 parts – then add the ten.

3 are apple juice.

How many orange juice?



Teacher to model it in a part whole model on the flipchart.

TPs: How many orange juices are there?

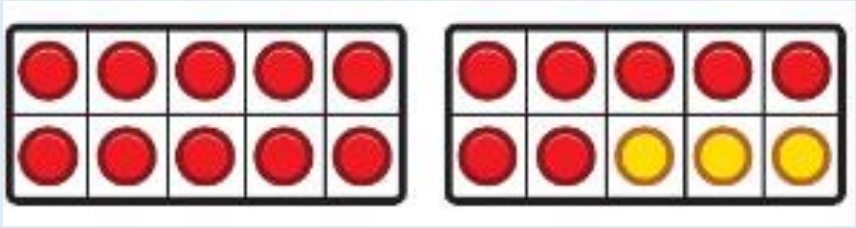
TPs: How many apple juices are there?

TPs: There are _____ altogether.

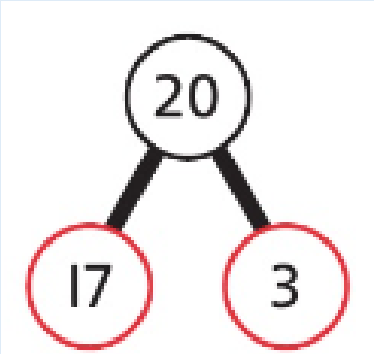
L.Q. Can I explore number bonds to 20?

18.11.2026





I can use a tens frame and counters to represent the juice in the trays.



There are 20 juice cartons in total.

I know 7+3=10, so

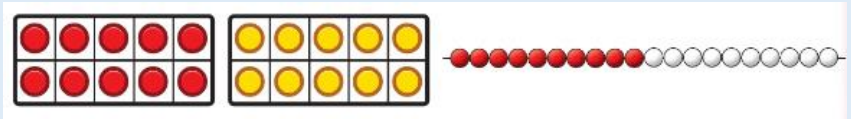
I know 17+3=20



10 cartons are apple juice.

10 cartons are orange juice.

10+10=20



L.Q. Can I explore number bonds to 20?

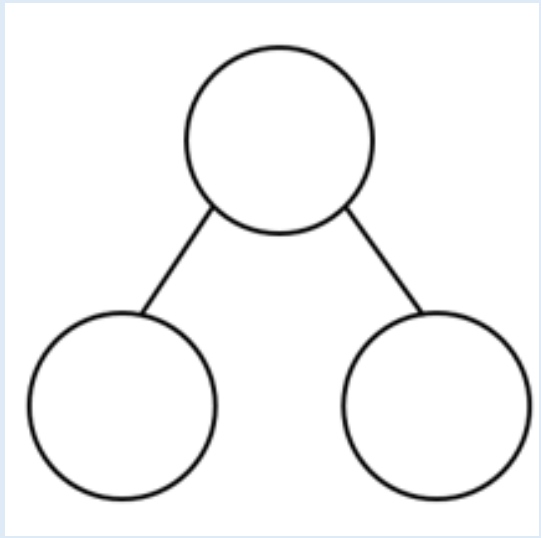
18.11.2026

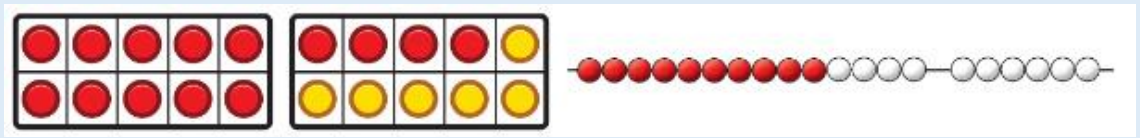


6 are apple juice.

How many are orange juice?

Lets focus on the circled cartons.

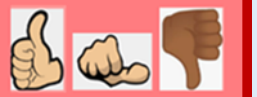






Self assessment

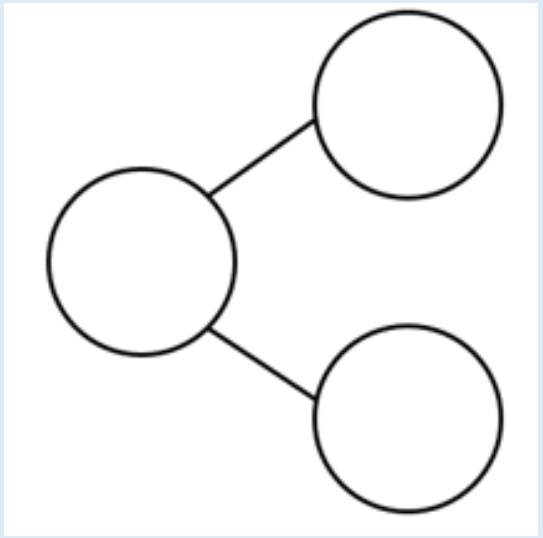
Do you understand how to find number bonds to 20?

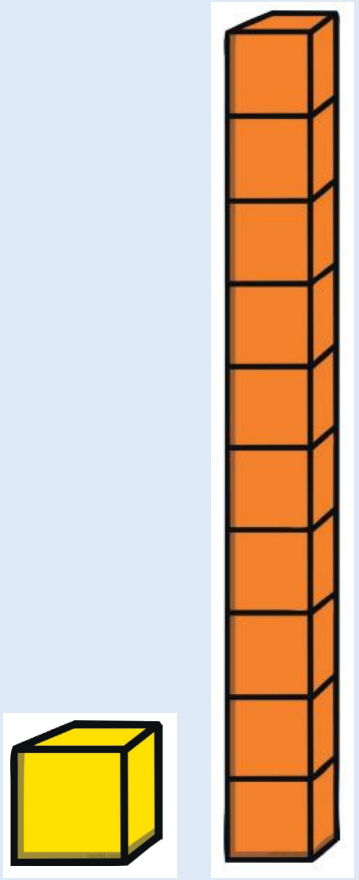


L.Q. Can I explore number bonds to 20?

18.11.2026

Let's use the dienes to make number bonds to 20 using the part whole model.

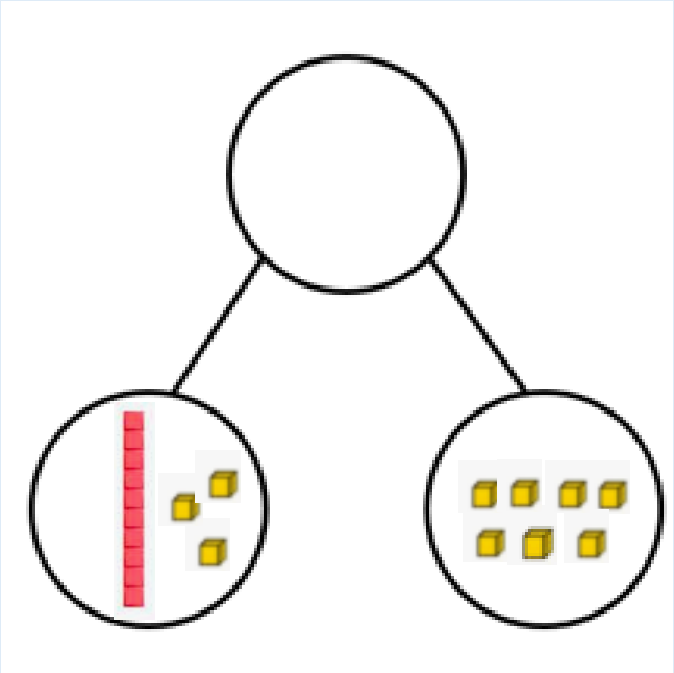




L.Q. Can I explore number bonds to 20?

18.11.2026

Task



Use the resources to practise making number bonds to 20.

Remember to partition the numbers.

Challenge:

Write the matching number sentence for each one.

E.g. 13+7=20

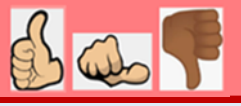






Self assessment

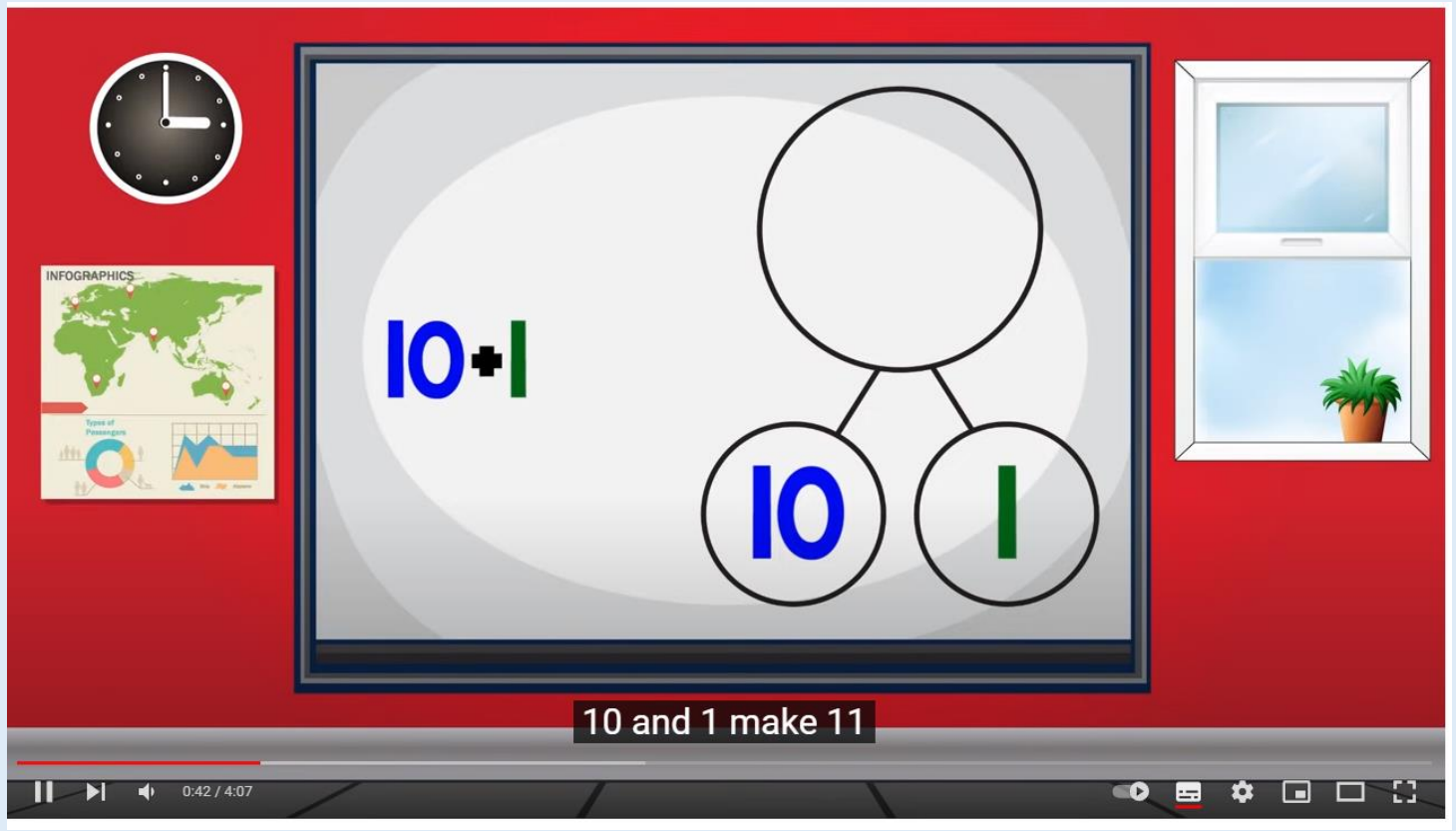
Do you understand the task?



Thursday 19th November 2026

L.Q. Can I explore number bonds to 20?

19.11.2026



https://www.youtube.com/watch?v=MmLMU8BqyKw

19.11.2026



LQ. Can I explore number bonds to 20?

Steps to success



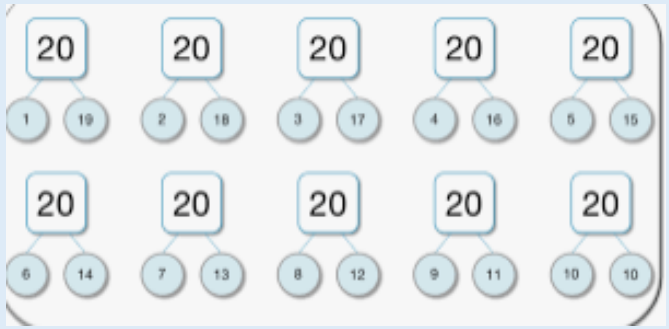
I can say bonds to 20 using my knowledge of number bonds to 10.

I can recall common bonds to 20, such as

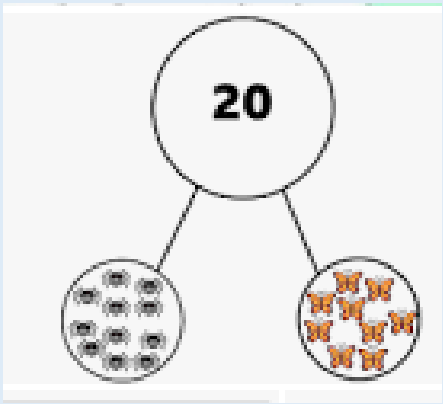
10 + 10, 1 + 19, 5 + 15.

Star words

Number bonds



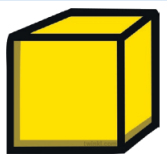
part-whole model



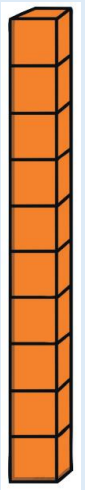
place value grid

Tens	Ones

ones



tens



L.Q. Can I explore number bonds to 20?

19.11.2026

Lets recap how to make numbers bonds to 10, which will help us to make bonds to 20.

2 + 8 = 10

12 + 8 = 20

4 + 6 = 10

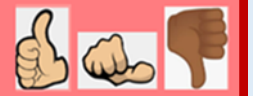
14 + 6 = 20

3 + 7 = 10

13 + 7 = 20

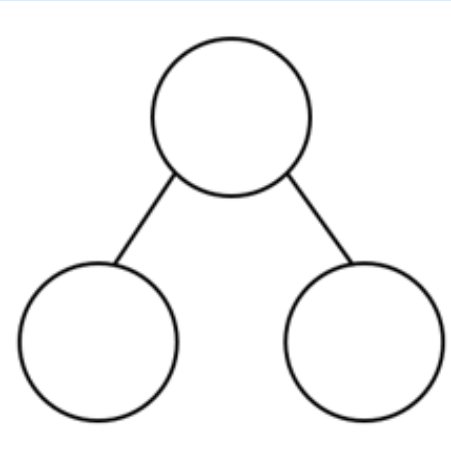
Self assessment

Do you understand how to add 10 to change the bond to 20?



L.Q. Can I explore number bonds to 20?

19.11.2026



Use your whiteboard to draw part whole model and dienes to match the number sentences below.



12 + 8 = 20

17 + 3 = 20

15 + 5 = 20

Teacher to model.

L.Q. Can I explore number bonds to 20?

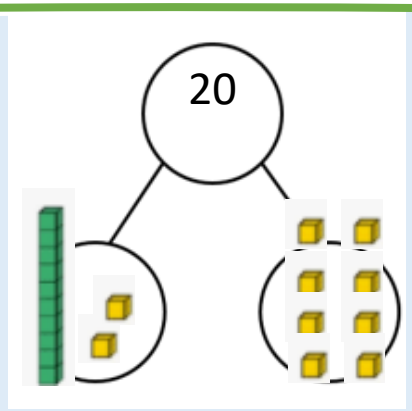
19.11.2026

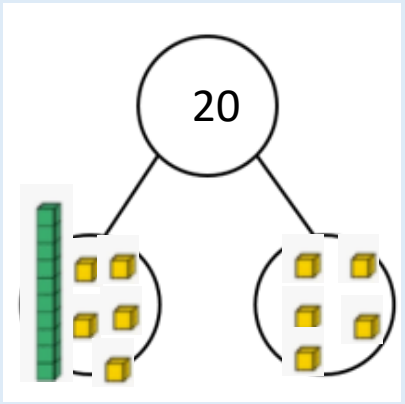
Let's check your work.





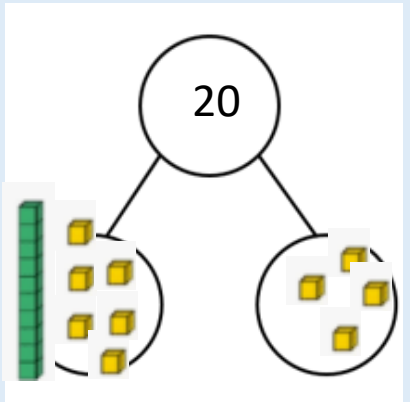
12 + 8 = 20





15 + 5 = 20

17 + 3 = 20

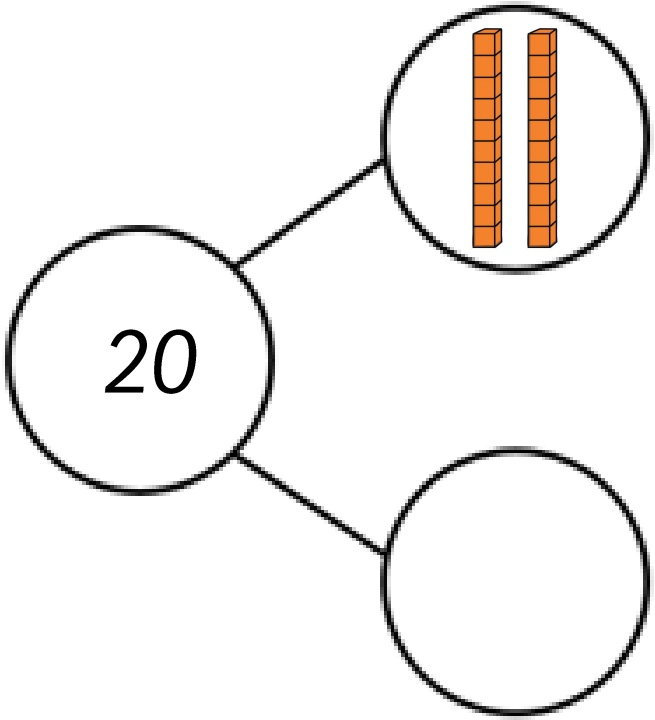


L.Q. Can I explore number bonds to 20?

19.11.2026

Jasmine says,

$20 + 0 = 20$ is the same as 2 tens.



TPs: Is she correct? Explain why?

Stem sentence:

Yes, she is correct because_____.

No, she is incorrect because_____.

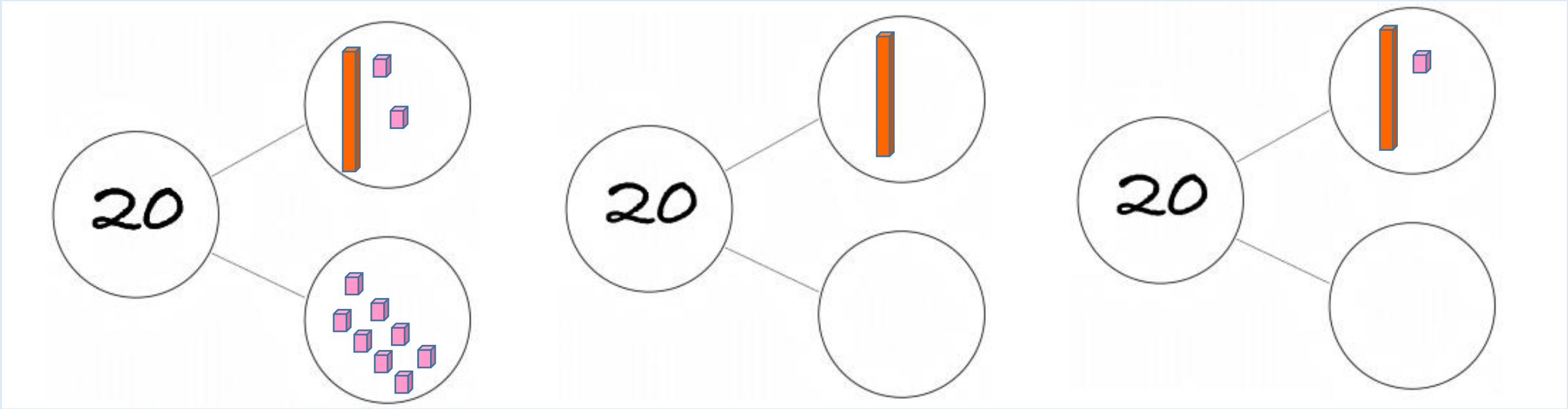
L.Q. Can I explore number bonds to 20?

19.11.2026

Task

Draw pictorial representations to make number bonds to 20 using the part whole model.

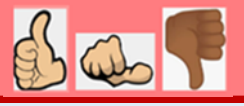
Challenge: Write the number sentences to match each part whole model.



__ + __ = 20 __ + __ = 20 __ + __ = 20

Self assessment

Do you understand the task?



Friday 20th November 2026

20.11.2026

Review: Can I read numbers in words?

ten

nineteen

fifteen

twenty

five

two

thirteen

eleven

seventeen

nine

20.11.2026



L.Q. Can I explore number bonds to 20?

Steps to success

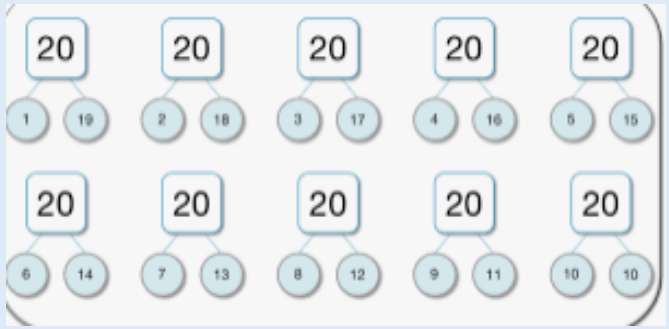


I can say bonds to 20 using my knowledge of number bonds to 10.

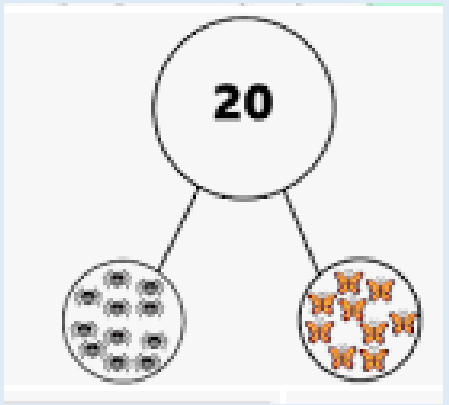
I can recall common bonds to 20, such as 10 + 10, 1 + 19, 5 + 15.

Star words

number bonds



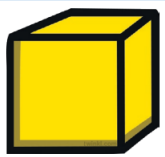
part-whole



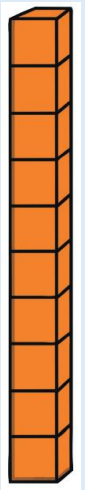
place value grid

Tens	Ones

ones

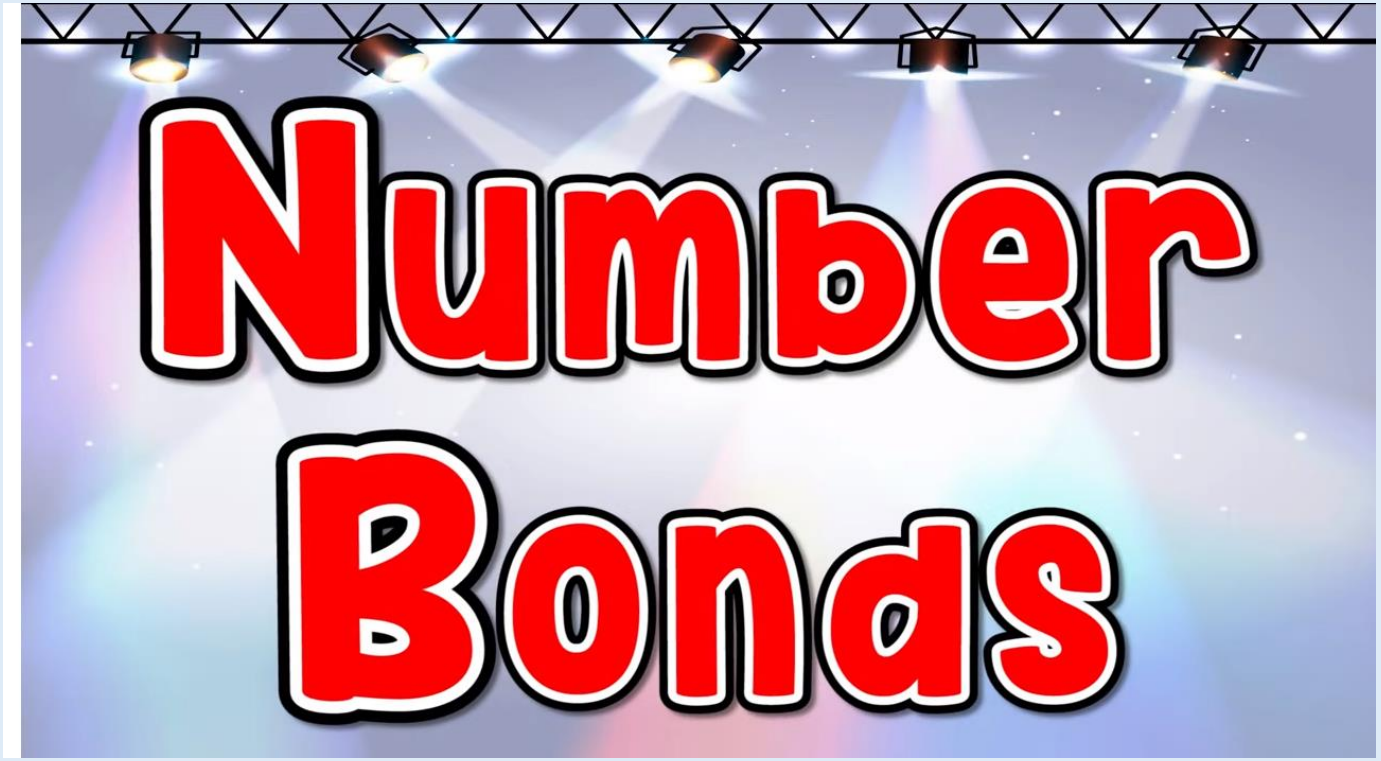


tens



L.Q. Can I explore number bonds to 20?

20.11.2026



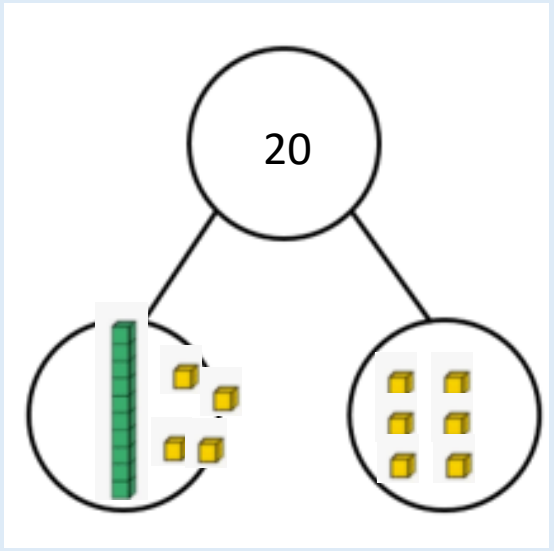
TPs: ____ and ____ makes 10.

https://www.youtube.com/watch?v=lD9tjBUiXs0

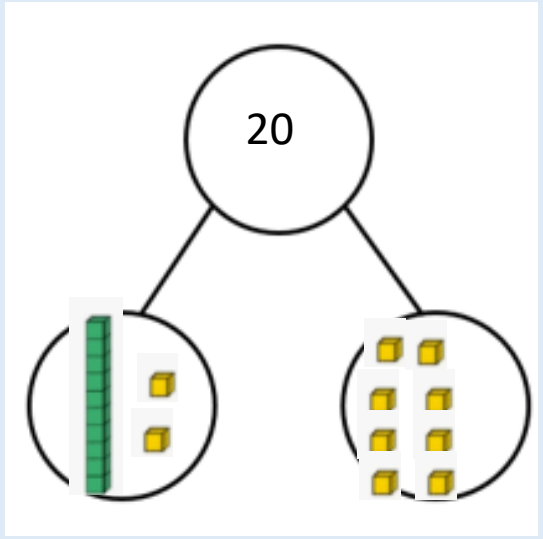
L.Q. Can I explore number bonds to 20?

20.11.2026

Let's write the number sentences for these part-whole models.





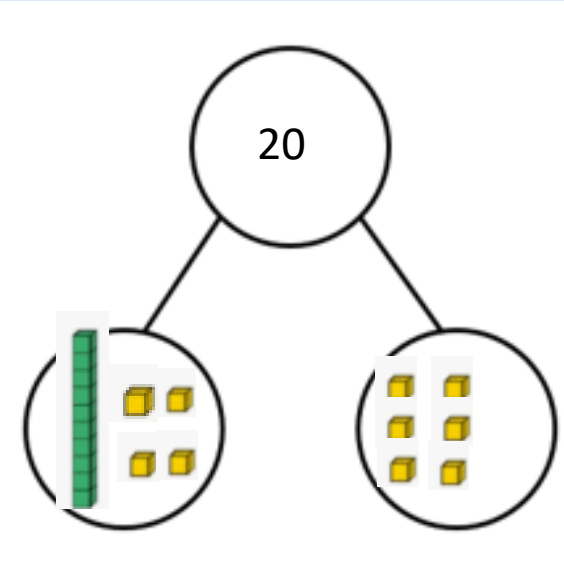




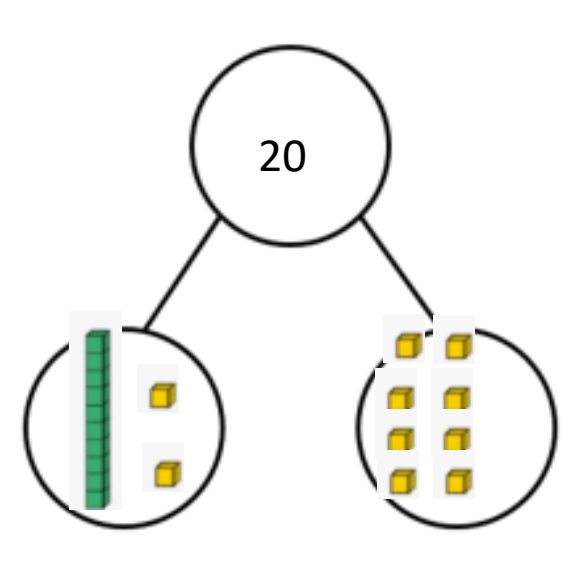
L.Q. Can I explore number bonds to 20?

20.11.2026

Does your part whole model look like this?



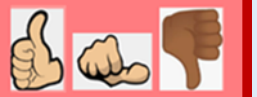
14 + 6 = 20



12 + 8 = 20

Self assessment

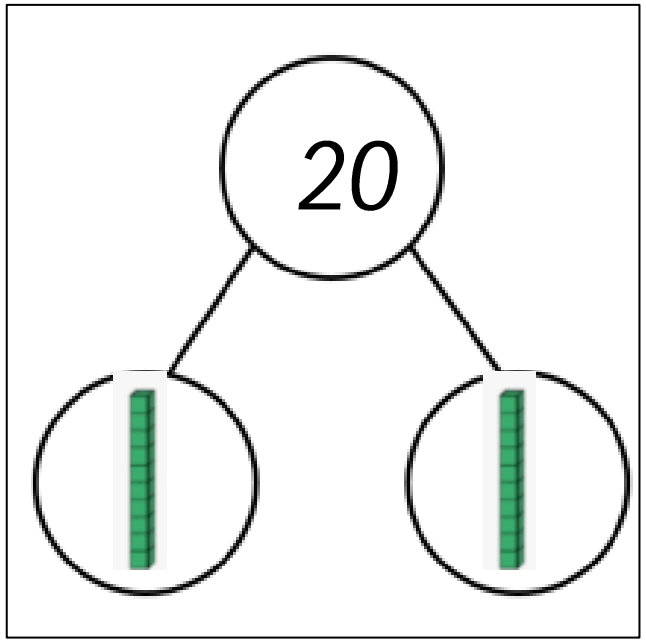
Do you understand how to find number bonds to 20?



L.Q. Can I explore number bonds to 20?

20.11.2026

Oliver completes his part-whole model.



TPs: Is he correct?

How do you know?

Stem sentence:

Yes, he is correct because_____.

No, he is incorrect because_____.

Write a number sentence to match.

L.Q. Can I explore number bonds to 20? Task

20.11.2026

Use the star words to help you explain your answers:

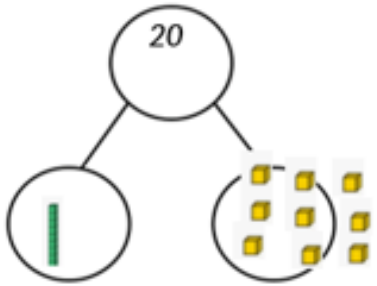
number bond, 20, ten frame, part-whole, ten, ones

1.
Complete the number sentences to show the number bonds to 20.

Sentence starter

_____ + _____ = _____

2.
Fran shows a number bond to 20.



Is she correct? Explain your answer.

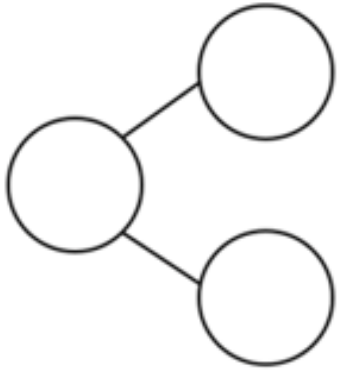
Sentence starter

Yes, she is correct because _____.

No, she is incorrect because _____.

3.
Draw dienes in a part whole model to show:

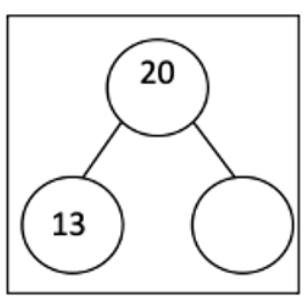
15+_____ =20

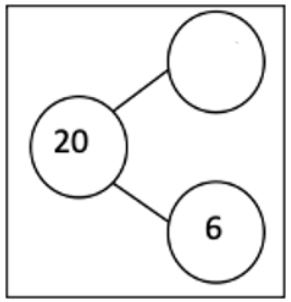


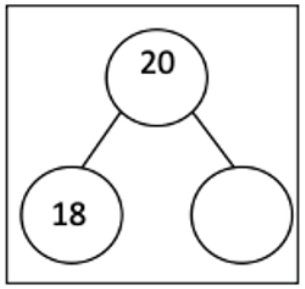
1.

11 + _____ = 20	16 + _____ = 20	14 + _____ = 20
15 + _____ = 20	_____ + 7 = 20	18 + _____ = 20

Today we worked in a small group to explore number bonds to 20. We used concrete resources to help us find the tens and ones and wrote the other part in the part whole model.







Self assessment

Do you understand the task?

