

SETScholars Math Worksheet

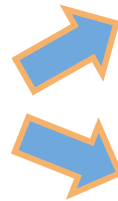
Class / Year / Grade 1 – Worksheet 29

Decomposing Numbers within 20

Some things are created because of the combination of other things! Numbers do the same! A number is a combination of other numbers. How does it happen? This worksheet will help you!

12 can be
split up to 7
and 5.

12



7

5

DECOMPOSING NUMBERS:

- Decomposing numbers means to break down numbers into their sub-parts.
- It means breaking a number into tens and ones.
- The opposite of decomposition is composition--- to put parts back together.

COUNTING NUMBERS FROM 1-20

Let's review numbers from 1 to 20!

1 One	2 Two	3 Three	4 Four	5 Five
6 Six	7 Seven	8 Eight	9 Nine	10 Ten
11 Eleven	12 Twelve	13 Thirteen	14 Fourteen	15 Fifteen
16 Sixteen	17 Seventeen	18 Eighteen	19 Nineteen	20 Twenty

Guide Questions

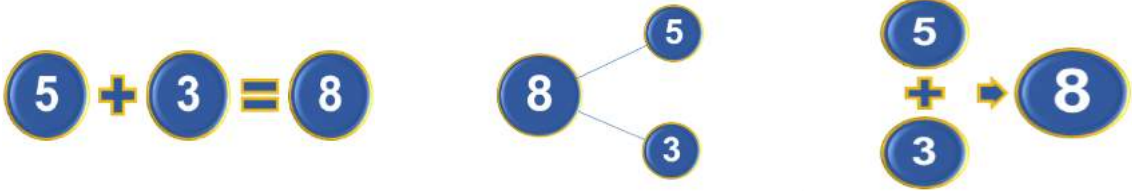
Cover the number chart above. Try to answer the following:

1. Which number comes after seven?
2. Which number comes after fifteen?
3. Which number comes before 11?
4. Which number comes before 20?
5. Which number has the smallest value?
6. Which number has the largest value?

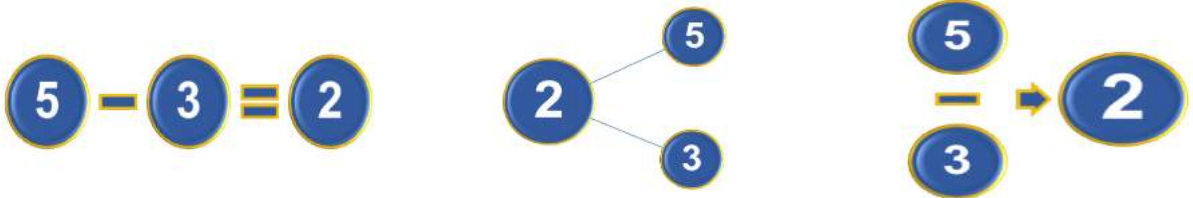
EXAMPLES OF COMPOSING NUMBERS

How to compose numbers?

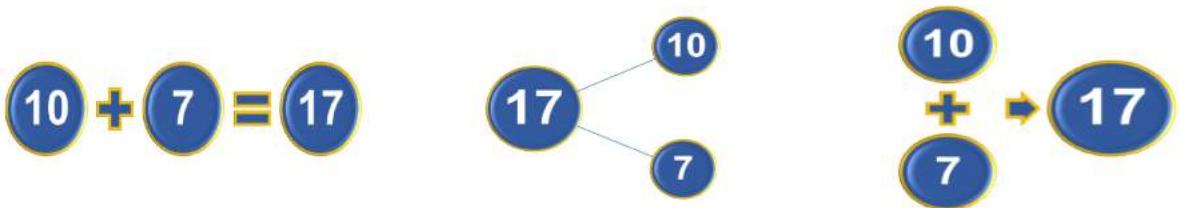
When I add 5 and 3, they will make 8.



When I subtract 3 from 5, they will make 2.



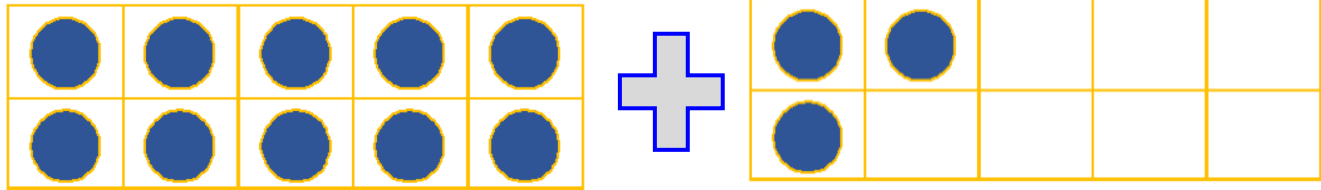
When I add 10 and 7, they will make 17.



COMPOSING NUMBERS USING TILES

How to compose numbers?

When I add 10 and 3, they will make 13.

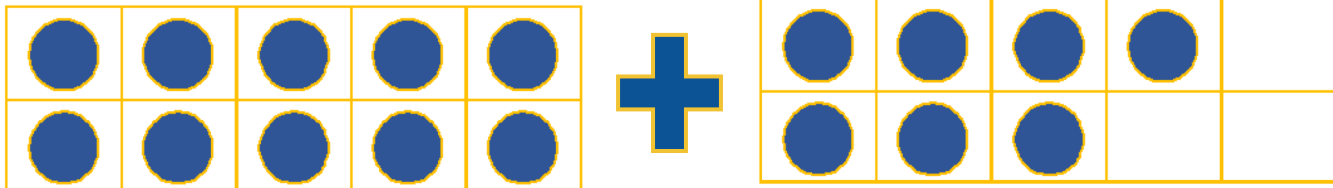


1 ten

3 ones

10 and 3 makes 13!

When I add 10 and 7, they will make 17.



1 ten

7 ones

10 and 7 makes 17!

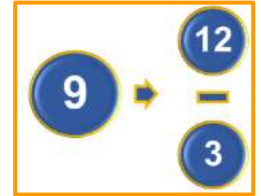
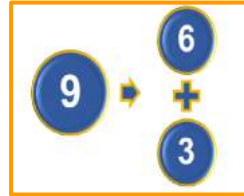
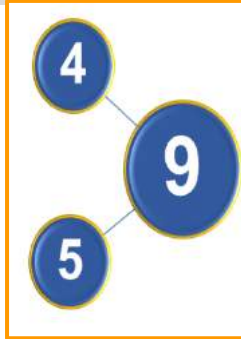
DECOMPOSING NUMBERS USING TILES

How to decompose numbers?

What are the numbers that made up 9?

$$9 = 8 + 1$$

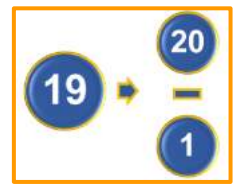
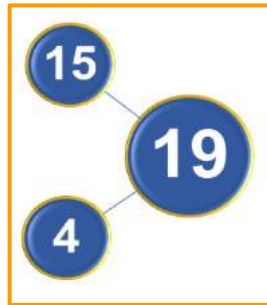
$$9 = 7 + 2$$



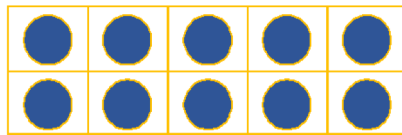
What are the numbers that made up 19?

$$19 = 10 + 9$$

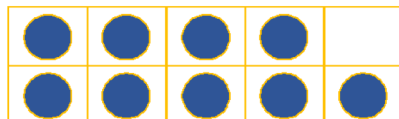
$$19 = 11 + 8$$



$$19 =$$



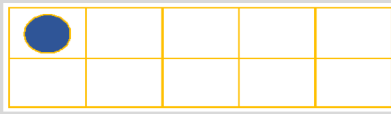
1 ten



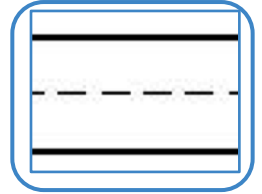
9 ones

DELIVERING CARGOS

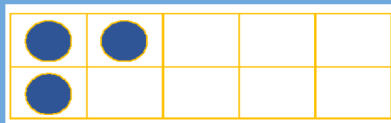
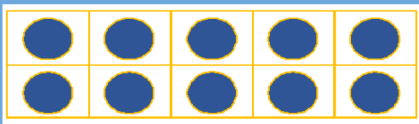
Can you help Mr. Truck to count the cargos that he needs to deliver to the next town. Count them all and write how many.



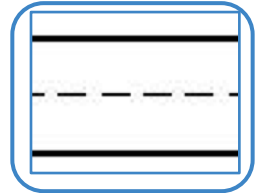
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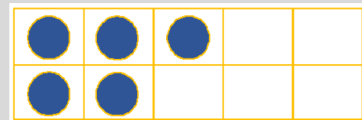
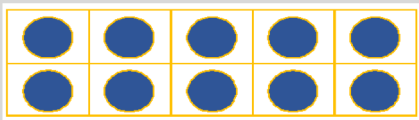
_____ ten and _____ ones make _____



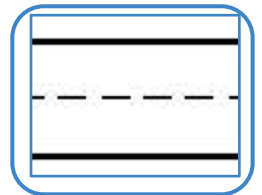
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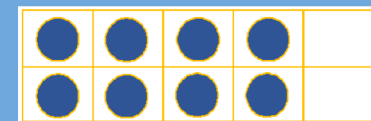
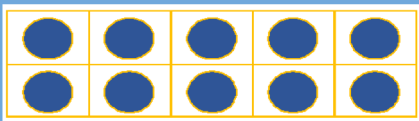
_____ ten and _____ ones make _____



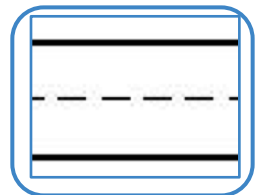
=



_____ ten and _____ ones make _____



=

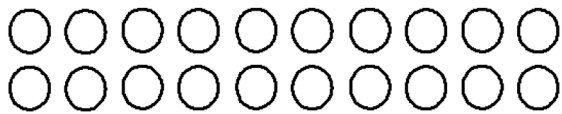


_____ ten and _____ ones make _____

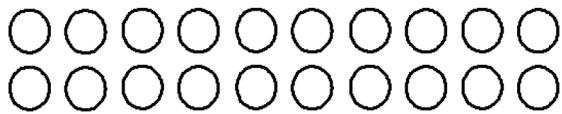


STOP, COLOR, AND GO!

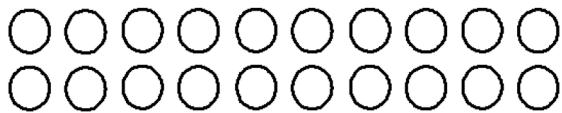
Stop the car and put color on the tiles that when added to a number, the sum will be 20. Use blue color to shade the tile.



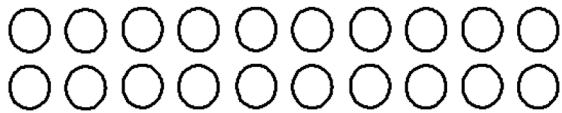
$$\square + 7 = 20$$



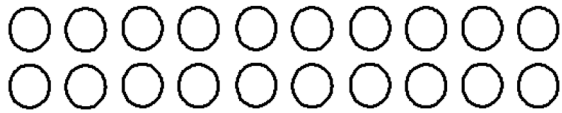
$$\square + 9 = 20$$



$$\square + 11 = 20$$



$$\square + 13 = 20$$



$$\square + 15 = 20$$

MOTORBIKE COURIER

The motorbike courier needs to send some goods at your house. But before he can do that, he needs to draw tiles that describe the equation.

$5 + 5 = \underline{\quad}$



$8 + 7 = \underline{\quad}$

$10 + 4 = \underline{\quad}$



$10 + 10 = \underline{\quad}$

THE TRAFFIC JAM

Oh no! The vehicle has been trapped in a traffic jam. While waiting for the stoplight to shift into go signal, help the driver to completely compose the desired number.



$$\bigcirc + 8 = 17$$

$$\bigcirc + 4 = 10$$

$$\bigcirc - 7 = 8$$

$$\bigcirc - 11 = 5$$

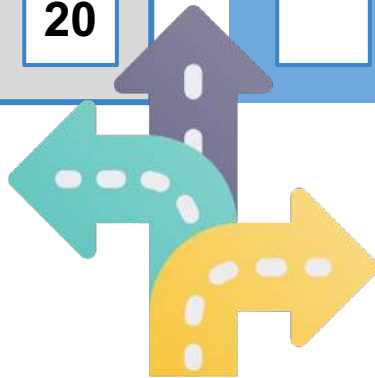
$$\bigcirc - 20 = 0$$

WHICH WAY TO GO?

Louie is lost in this way. Can you help him find which way to go by decomposing 20 into different ways.? Cut and paste your answer!

<input type="text"/>	+	<input type="text"/>	=	20
<input type="text"/>	+	<input type="text"/>	=	20
<input type="text"/>	+	<input type="text"/>	=	20
<input type="text"/>	+	<input type="text"/>	=	20

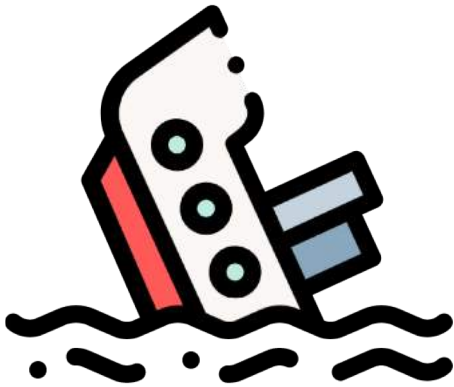
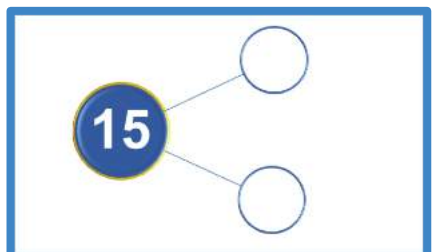
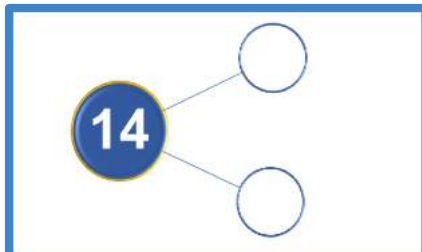
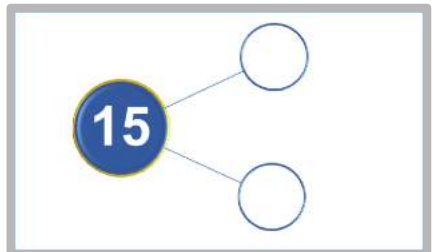
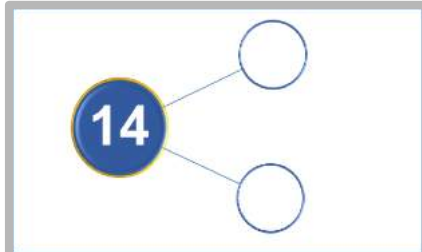
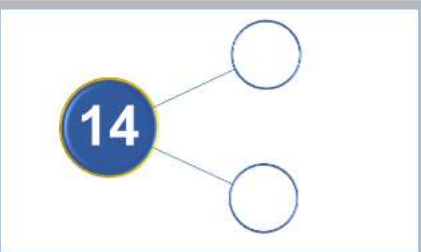
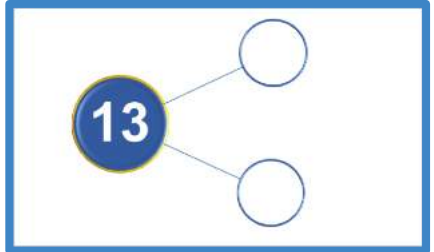
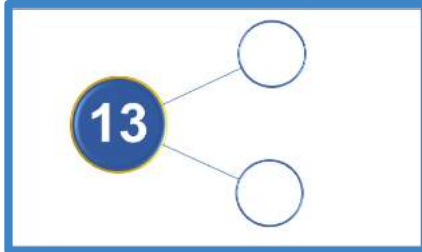
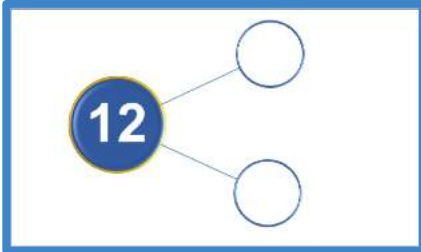
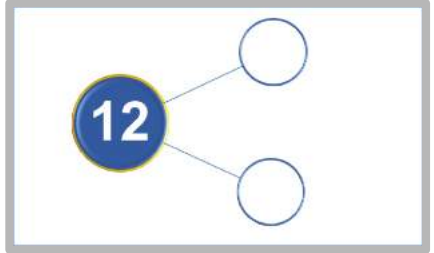
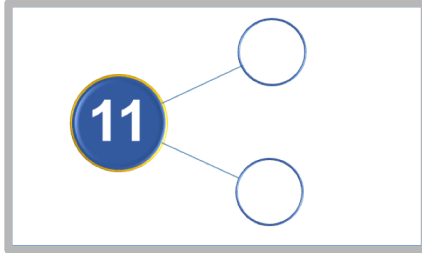
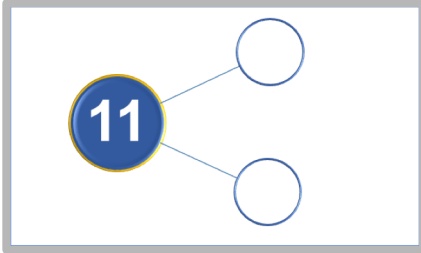
<input type="text"/>	+	<input type="text"/>	=	20
<input type="text"/>	+	<input type="text"/>	=	20
<input type="text"/>	+	<input type="text"/>	=	20
<input type="text"/>	+	<input type="text"/>	=	20



6	8	4	10	3	11
14	2	13	1	16	5
7	18	9	15	17	12

THE SHIP NEED YOUR HELP

Hurry! The ship is sinking! Complete the decomposition of numbers to save the ship and its passengers.

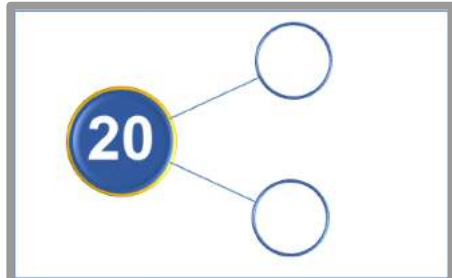
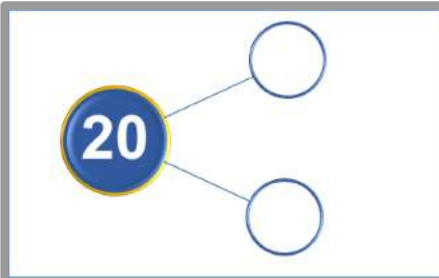
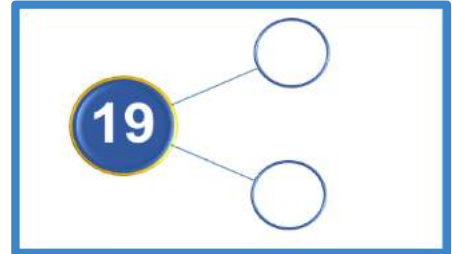
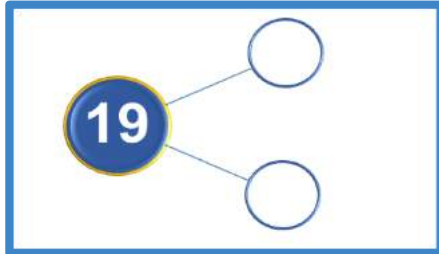
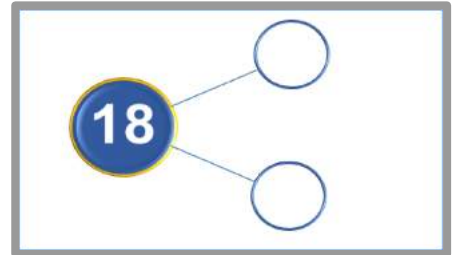
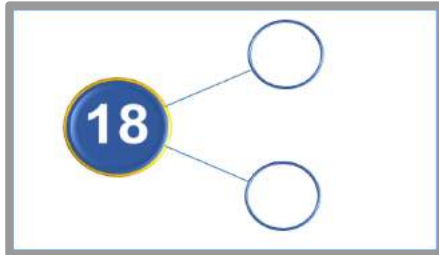
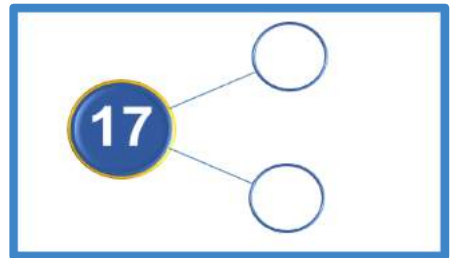
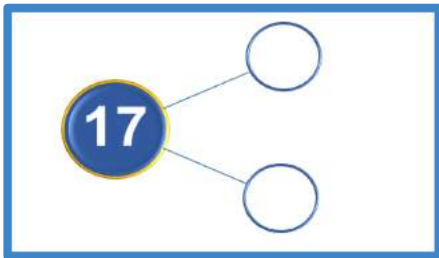


HELP



THE TRAFFIC OFFICERS

They are the heroes on the road! This time, they need to think of numbers to create 17, 18, 19, and 20. Help them out!



LOCATING VIA GPS

I'm on my way, said the car. Match the car numbers to its corresponding GPS tiles.

GPS tiles for matching:

- Tile 1: 10 circles (5x2) and 2 circles (2x1)
- Tile 2: 10 circles (5x2) and 3 circles (3x1)
- Tile 3: 10 circles (5x2) and 6 circles (3x2)
- Tile 4: 10 circles (5x2) and 8 circles (4x2)

Car numbers for matching:

- Car 1: 20
- Car 2: 14
- Car 3: 12
- Car 4: 19

ROAD TRIP WITH BIKES

You and your friends want to go on a trip with some mathematical tasks! Just like riding a bike, you need to put effort in solving these questions.

TRACE
IT!

COMPOSE IT!

BREAK INTO
PARTS!

14

___ tens

___ ones

15

___ tens

___ ones

16

___ tens

___ ones

18

___ tens

___ ones

20

___ tens

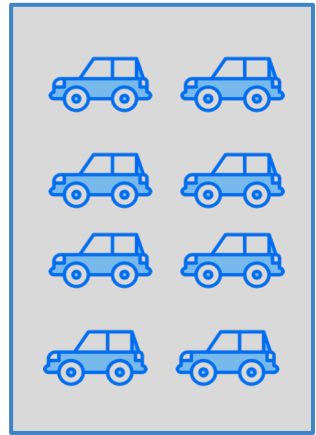
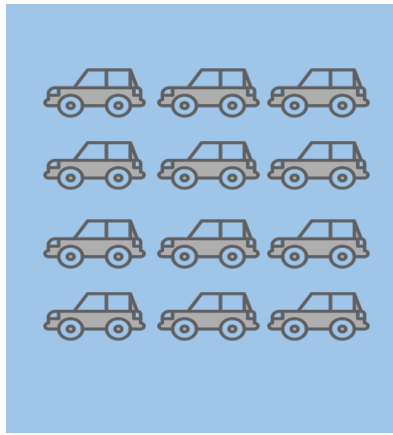
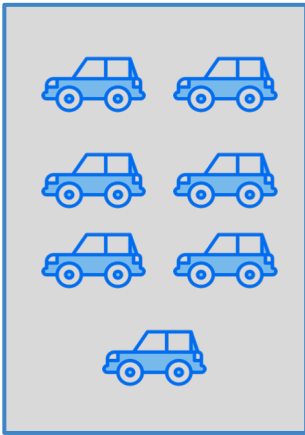
___ ones



CARS AND CONES

Encircle two set of objects that will make a sum of the desired number when added. Assist the traffic officer to do his task.

WHICH TWO SETS OF OBJECTS WILL MAKE A SUM OF 15?



WHICH TWO SETS OF OBJECTS WILL MAKE A SUM OF 17?

