



# Let's Do MATHEMATICS

Worktext **1A**

for learners 6 - 7 years old





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# Let's Do Mathematics

Let's Do Mathematics is a series covering levels K-6 and is fully aligned to the United States Common Core State Standards (USCCSS). Each level consists of two books (Book A and Book B) and combines textbook-style presentation of concepts as well as workbook practice.

Central to the USCCSS is the promotion of problem-solving skills and reasoning. Let's Do Mathematics achieves this by teaching and presenting concepts through a problem-solving based pedagogy and using the concrete-pictorial-abstract (CPA) approach. Learners acquire knowledge and understanding of concepts through a guided progression beginning with concrete examples and experiences which then flow into pictorial representations and finally mastery at the abstract and symbolic level. This approach ensures that learners develop a fundamental understanding of concepts rather than answering questions by learned procedures and algorithms.

Key features of the series include:



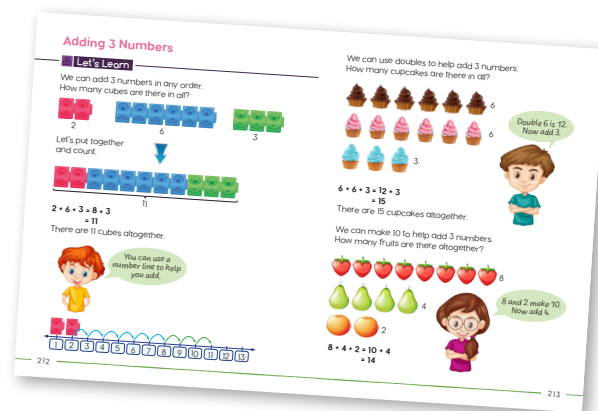
## Anchor Task

Open-ended activities serve as the starting point for understanding new concepts. Learners engage in activities and discussions to form concrete experiences before the concept is formalized.



## Let's Learn

Concepts are presented in a clear and colorful manner. Worked problems provide learners with guided step-by-step progression through examples. Series mascots provide guidance through helpful comments and observations when new concepts are introduced.



## Let's Practice

Learners demonstrate their understanding of concepts through a range of exercises and problems to be completed in a classroom environment. Questions provide a varying degree of guidance and scaffolding as learners progress to mastery of the concepts.

## At Home

Further practice designed to be completed without the guidance of a teacher. Exercises and problems in this section follow on from those completed under Let's Practice.

## Hands On

Learners are encouraged to 'learn by doing' through the use of group activities and the use of mathematical manipulatives.

## Solve It!

Activities that require learners to apply logical reasoning and problem-solving. Problems are often posed which do not have a routine strategy for solving them. Learners are encouraged to think creatively and apply a range of problem-solving heuristics.

## Looking Back

Consolidated practice where learners demonstrate their understanding on a range of concepts taught within a unit.

**Let's Practice**

1. Fill in the blanks.

(a) ten and ones is

(b) ten and ones is

(c) ten and ones is

(d) ten and ones is

2. Find the total number of pencils. Fill in the blanks.

(a) There are  pencils in all.

30 and  make . There are  pencils in all.

(b) There are  pencils in all.

and  make . There are  pencils in all.

**At Home**

1. Complete the number story.

There are  ducks.  ducks are in the water.  ducks are on the grass.

2. Complete the number stories.

(a) There are  toys.  are on the shelf.  are on the floor.

(b) There are  toys.  toys are teddy bears.  toys are dolls.

**Hands On**

Play this game in pairs.

- Each player puts a counter on 'Start'.
- Take turns in rolling a dice. Move your counter the number of spaces shown on the dice.
- Answer the subtraction equation. If you answer incorrectly, move your counter back to the start. The first player to the finish is the winner!

**Solve It!**

1. Fill in the missing numbers.

(a) Look!  $8 + 1 = 9$ . What's the rule?

(b)

(c)

(d)

(e)

**Looking Back**

1. Count on in tens: 40, 50, 60, 70, 80, 90

2. Count and complete.

and  make . There are  pencils in all.

3. Compare the sets. Fill in the blanks.

Set A: Set B: Set A has  dots. Set B has  dots.  tens is less than  tens.  <

4. Check the smaller number.

(a) 55 53 (b) 17 8

5. Write > or < to compare the numbers.

(a) 22  12 (b) 4  14  
 (c) 9  91 (d) 43  47  
 (e) 53  50 (f) 70  83

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# 1

# Number Bonds

## Making Number Bonds



Anchor Task

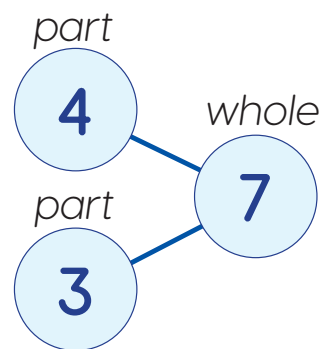
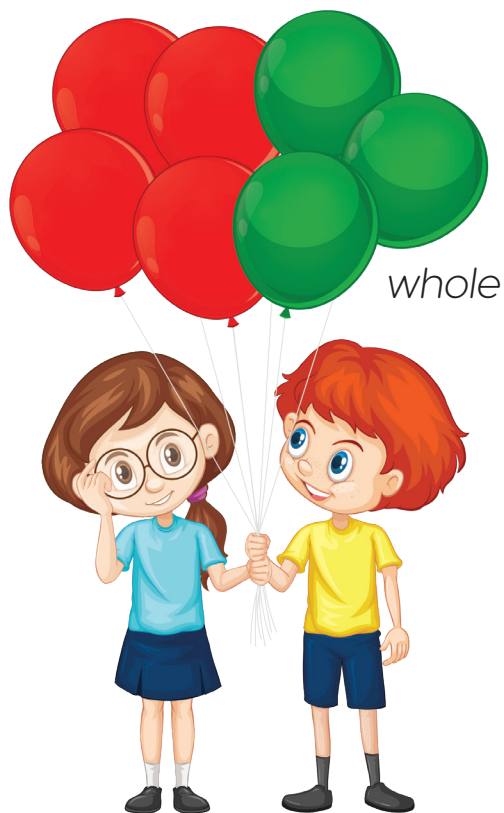
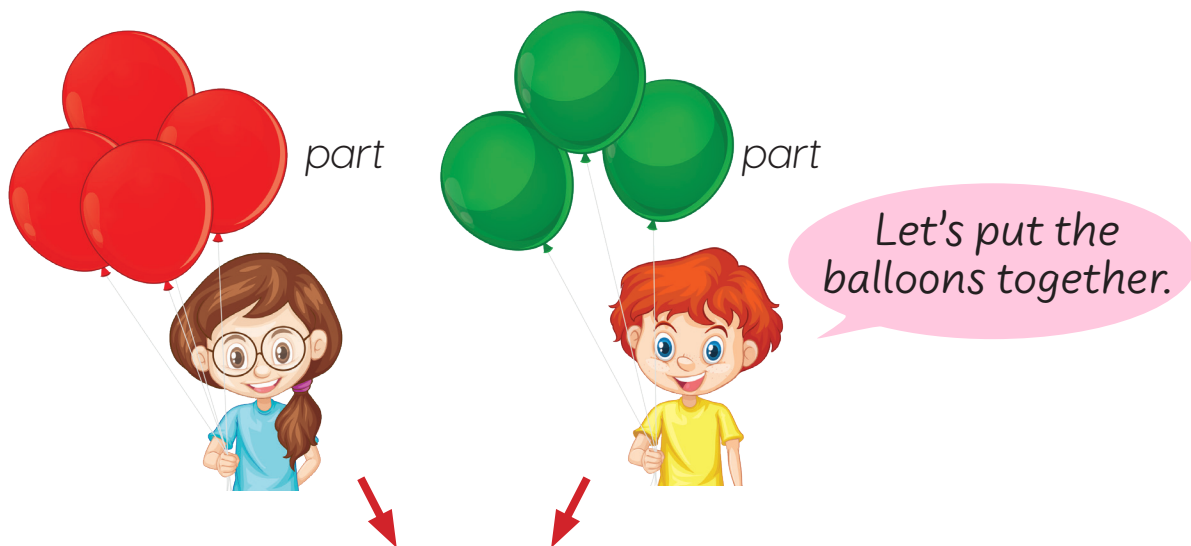






# Let's Learn

Halle has 4 red balloons.  
Wyatt has 3 green balloons.

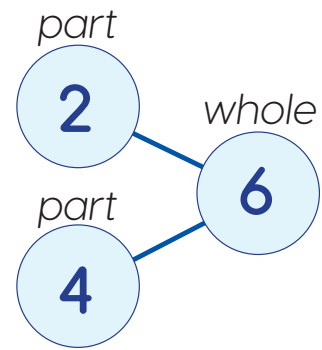
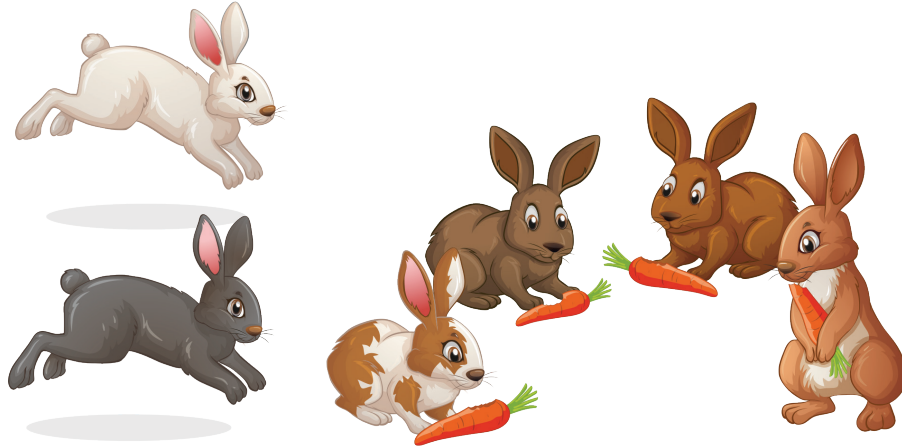


4 and 3 make 7.  
There are 7 balloons in all.



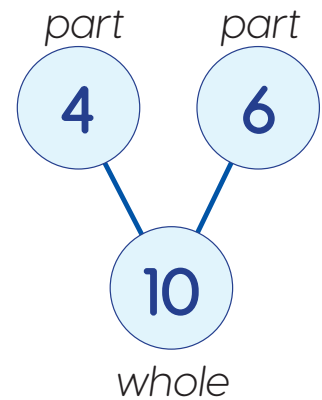
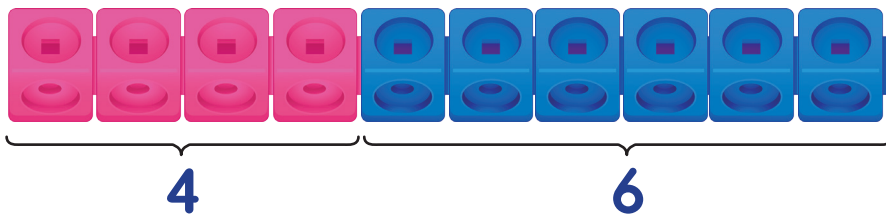


4 rabbits are eating.  
2 rabbits join them.



4 and 2 make 6.  
There are 6 rabbits in all.

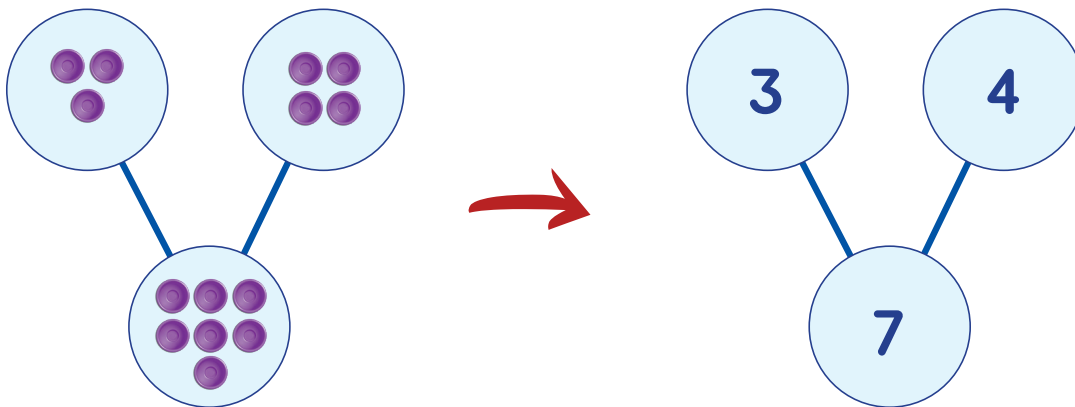
There are 4 pink cubes.  
There are 6 blue cubes.



4 and 6 make 10.  
There are 10 cubes in all.

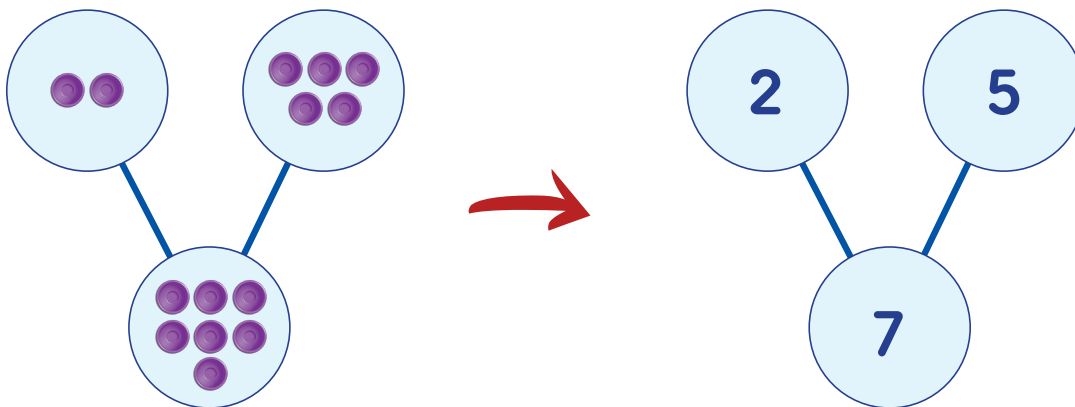


Let's use number bonds to show some ways to make 7.



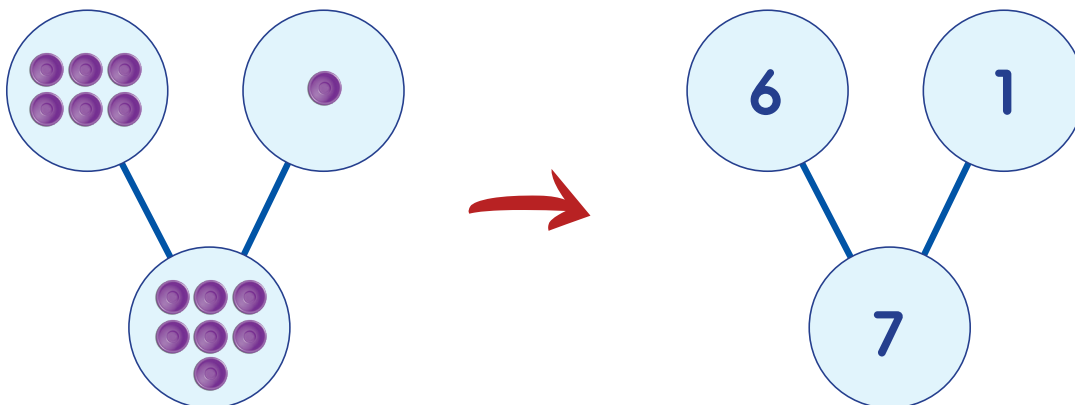
3 and 4 make 7.

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2 and 5 make 7.

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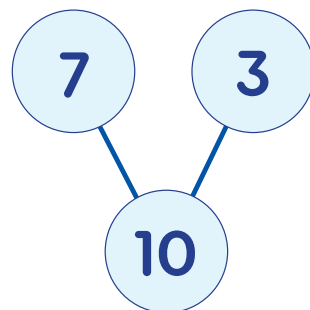
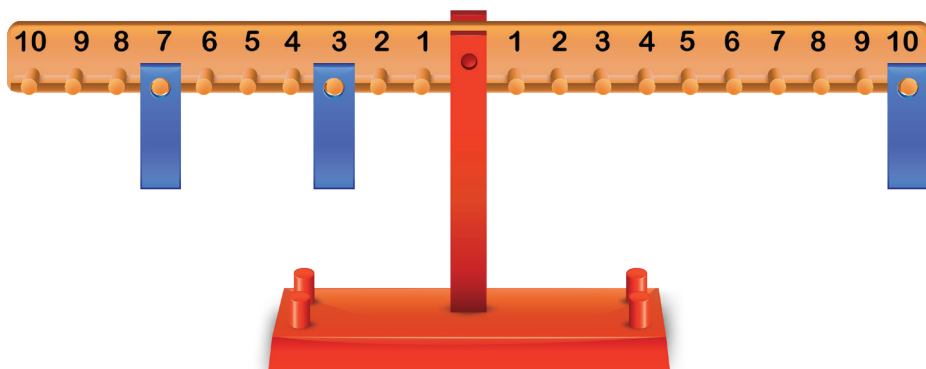


6 and 1 make 7.

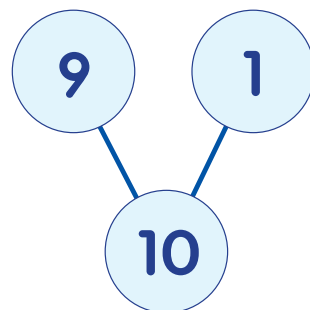
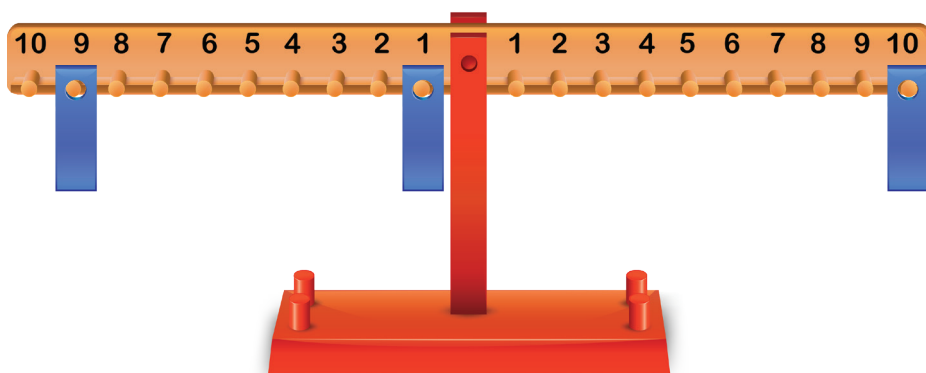
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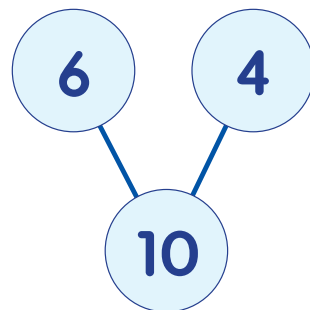
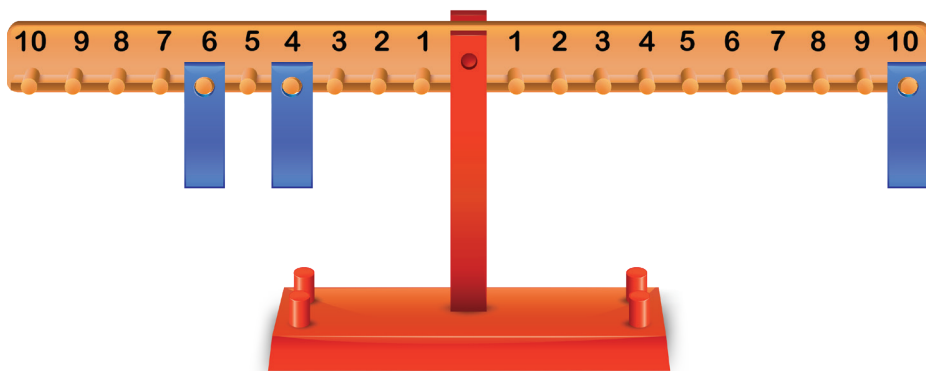
Let's use a number balance to show 3 ways to make 10.



7 and 3 make 10.



9 and 1 make 10.

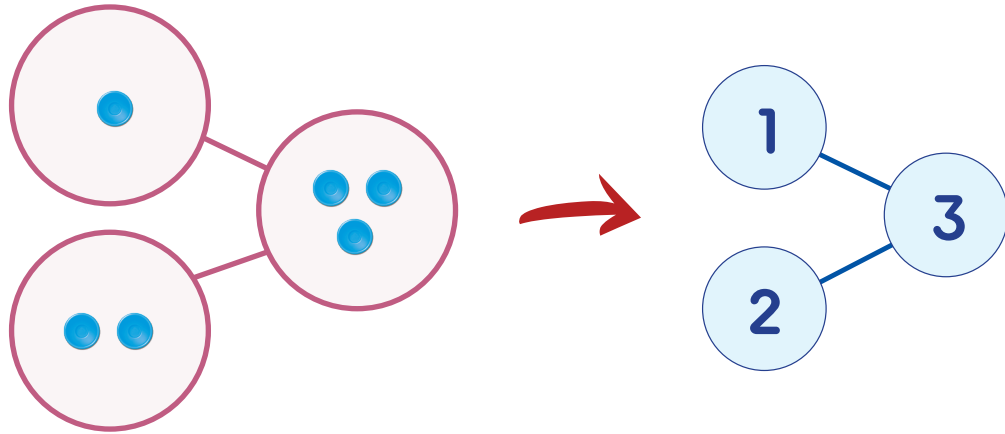


6 and 4 make 10.

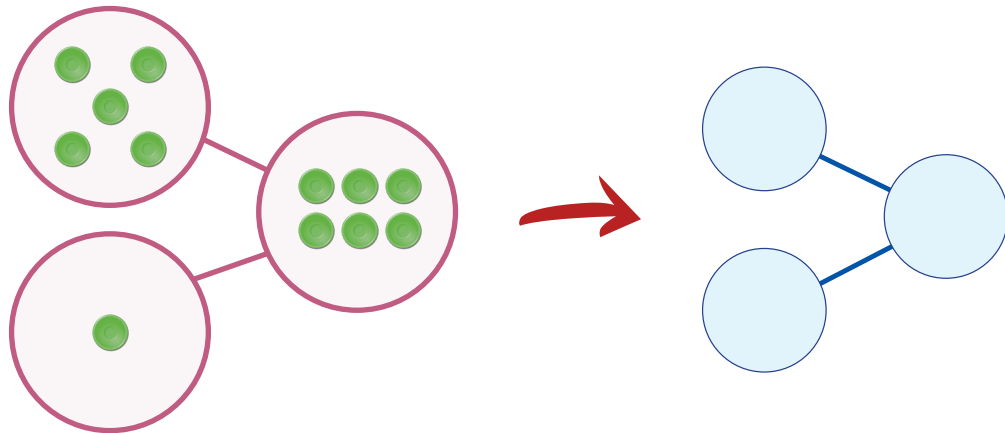
 **Let's Practice**

1. Complete the number bonds.

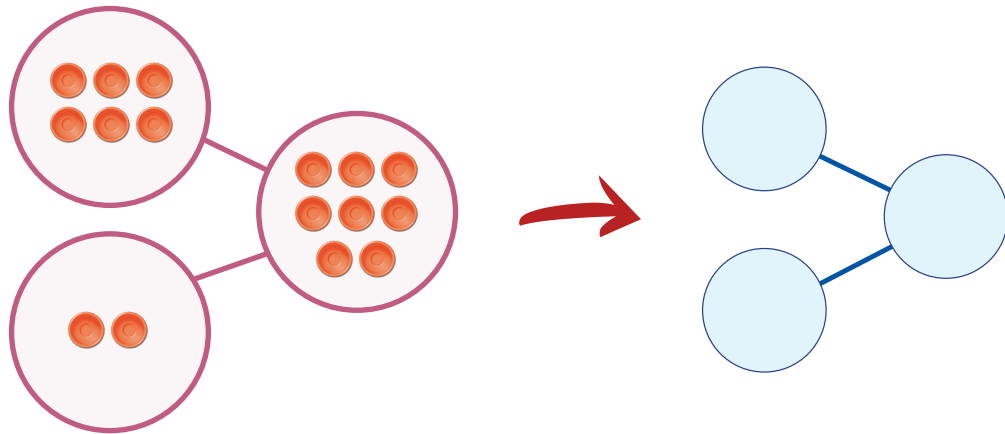
(a)



(b)

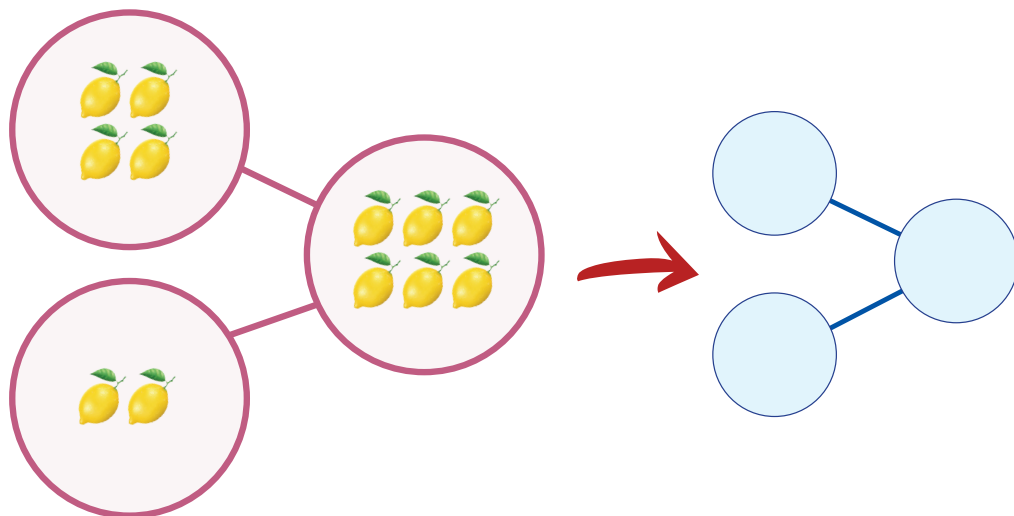


(c)

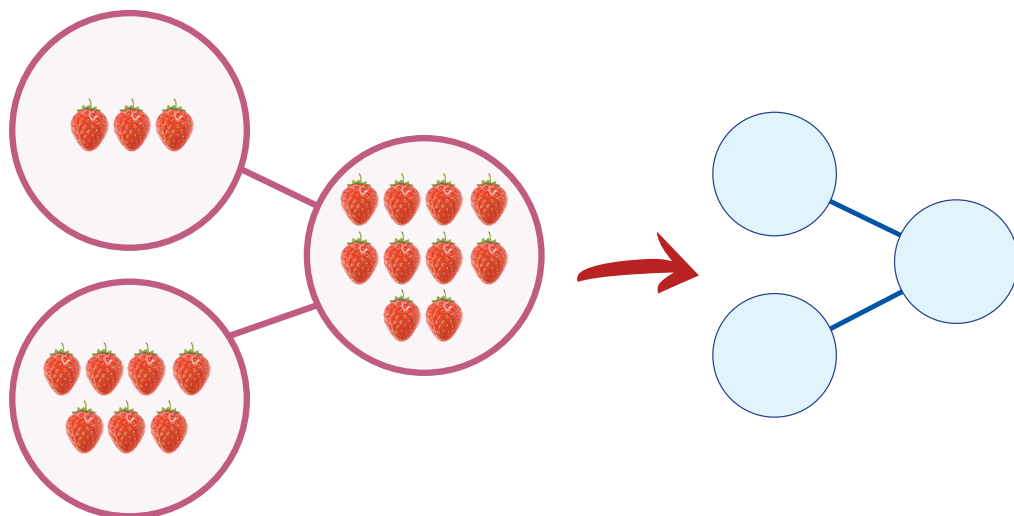




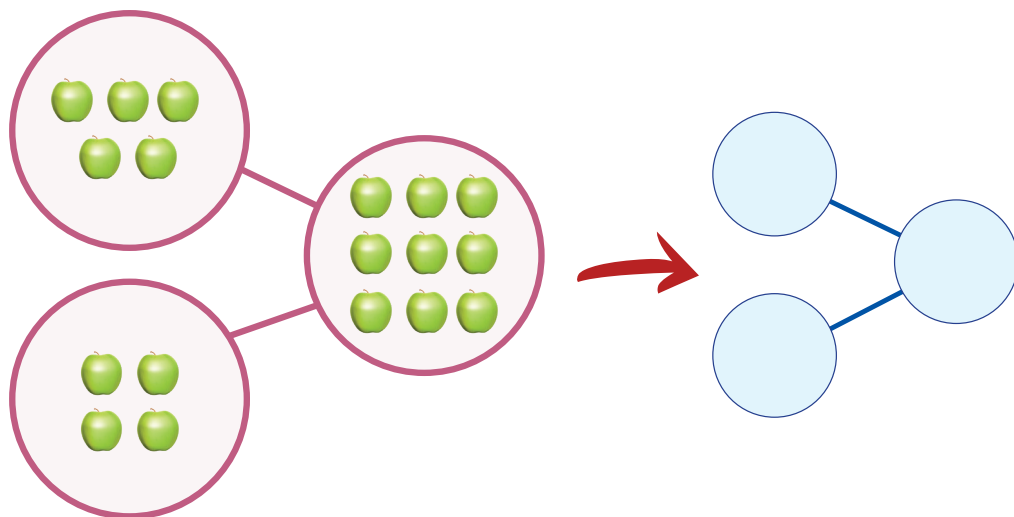
(d)



(e)

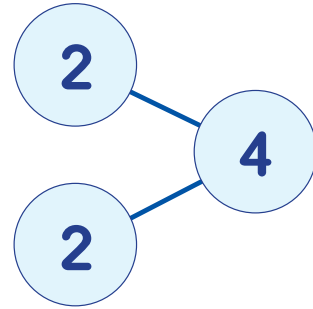


(f)



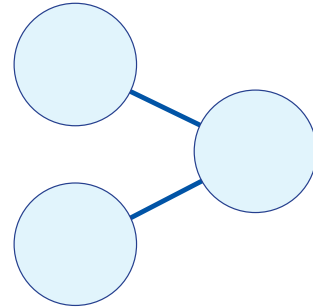
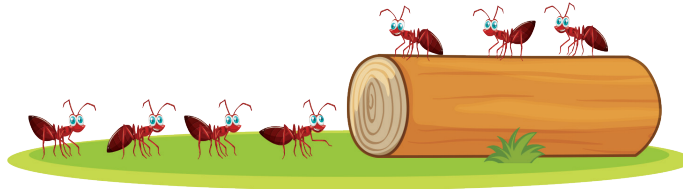
2. Complete the number bonds.

(a)



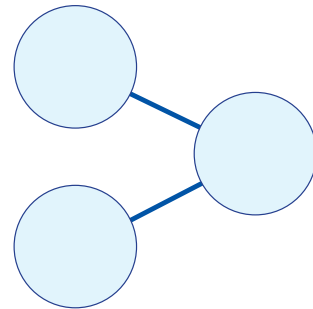
There are  bees in all.

(b)



There are  ants in all.

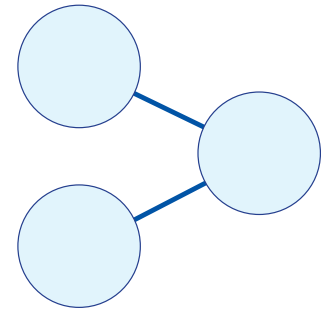
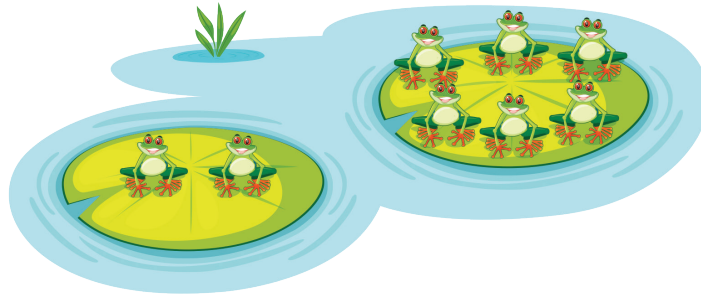
(c)



There are  butterflies in all.

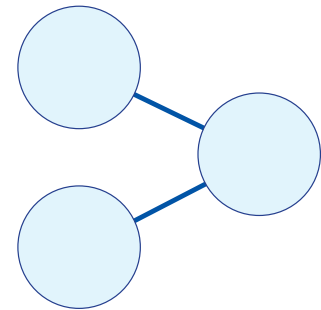
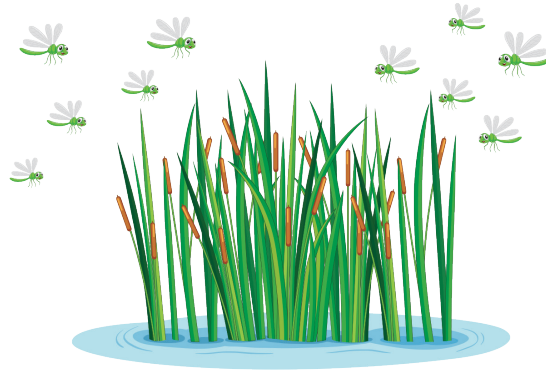


(d)



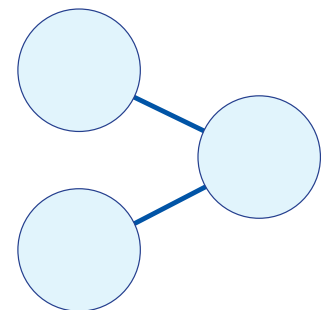
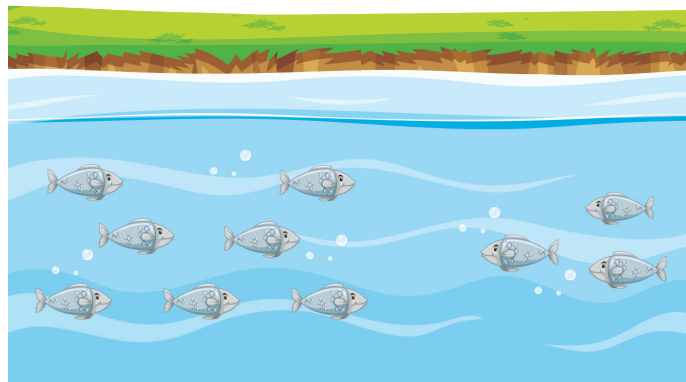
There are  frogs in all.

(e)



There are  dragonflies in all.

(f)



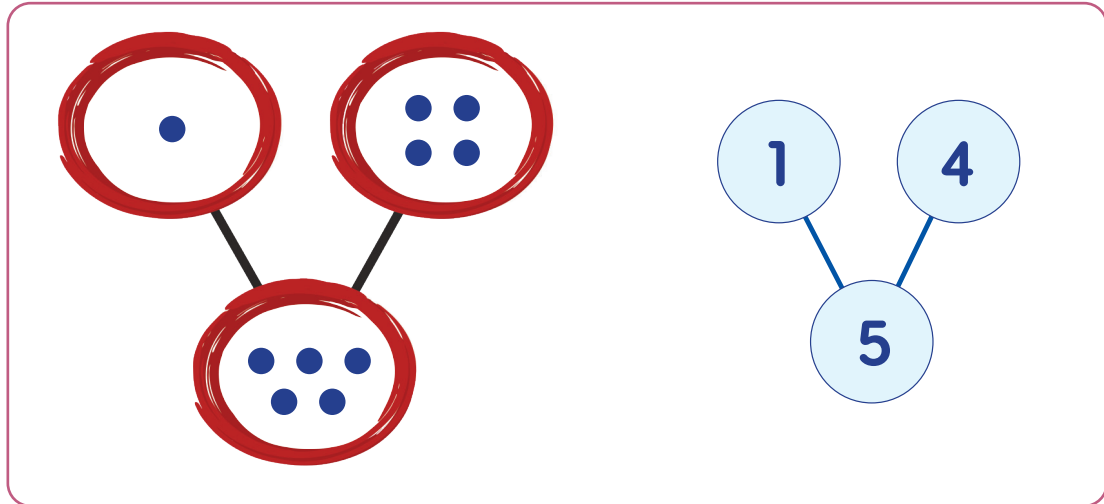
There are  fish in all.



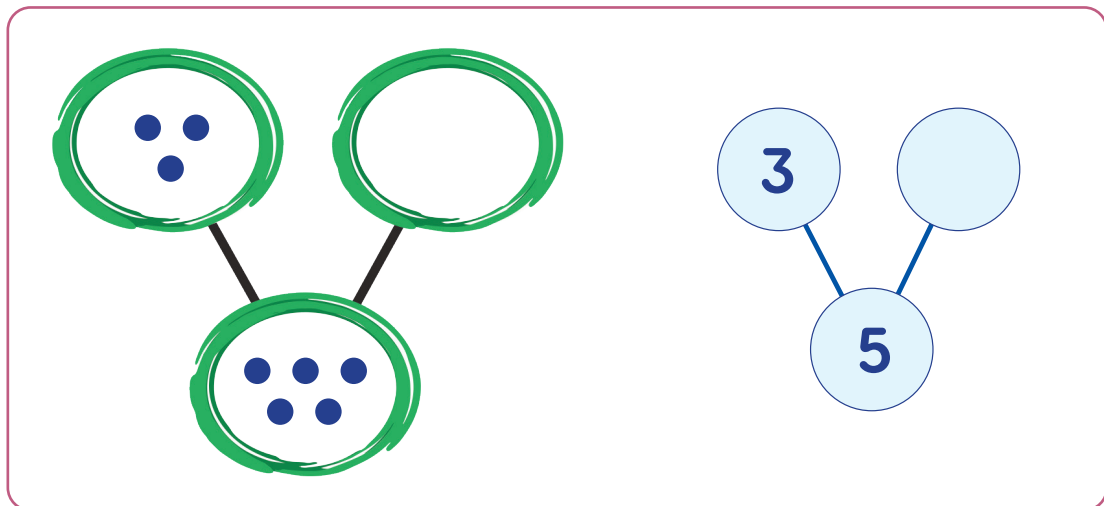


3. Draw the missing dots and complete the number bonds of 5.

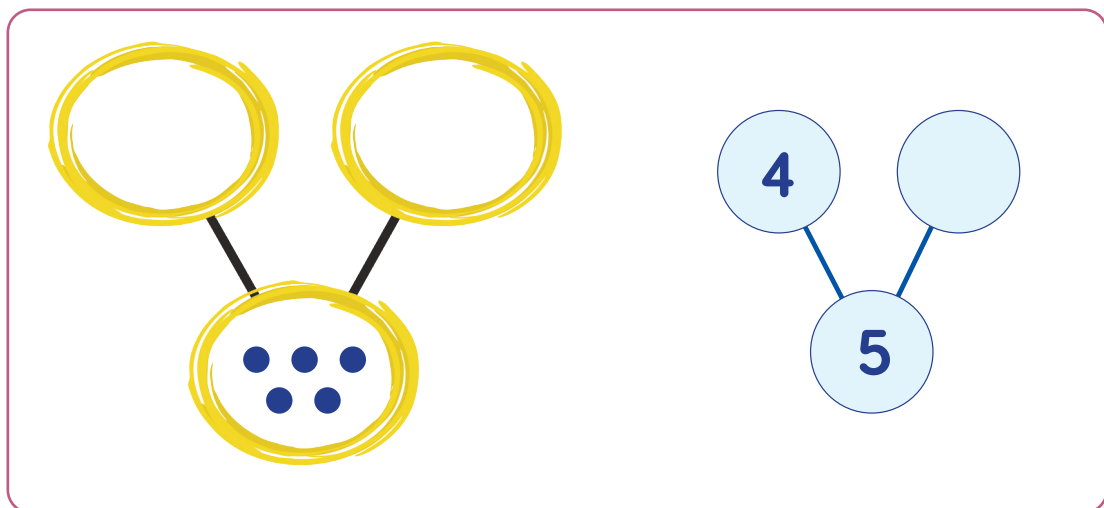
(a)



(b)



(c)





4. Fill in the blanks. Complete the number bonds of 6.

(a)

4 2

(b)

(c)

(d)

5. Fill in the blanks. Complete the number bonds of 7.

(a)

A horizontal bar of 7 blocks is shown. The first block is red, and the remaining 6 blocks are orange. A bracket under the red block is labeled with the number 1. A bracket under the orange blocks is labeled with the number 6. To the right of the bar is a number bond diagram consisting of three light blue circles. One circle on the right contains the number 7. Two lines connect it to two empty circles on the left.

(b)

A horizontal bar of 7 blocks is shown. The first 3 blocks are red, and the remaining 4 blocks are orange. Brackets are drawn under the red and orange blocks, but they are empty. To the right of the bar is a number bond diagram consisting of three light blue circles. One circle on the right contains the number 7. Two lines connect it to two empty circles on the left.

(c)

A horizontal bar of 7 blocks is shown. The first 5 blocks are red, and the remaining 2 blocks are orange. Brackets are drawn under the red and orange blocks, but they are empty. To the right of the bar is a number bond diagram consisting of three light blue circles. One circle on the right contains the number 7. Two lines connect it to two empty circles on the left.

(d)

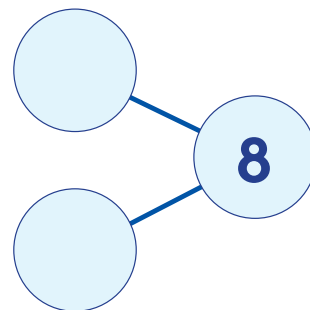
A horizontal bar of 7 blocks is shown. The first 4 blocks are red, and the remaining 3 blocks are orange. Brackets are drawn under the red and orange blocks, but they are empty. To the right of the bar is a number bond diagram consisting of three light blue circles. One circle on the right contains the number 7. Two lines connect it to two empty circles on the left.

6. Fill in the blanks. Complete the number bonds of 8.

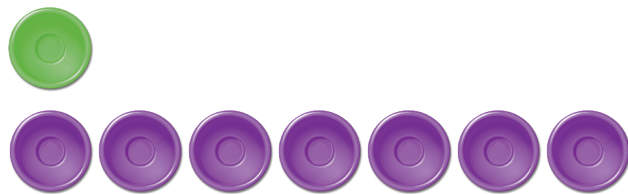
(a)



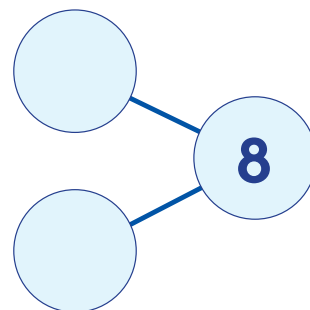
and  make 8.



(b)



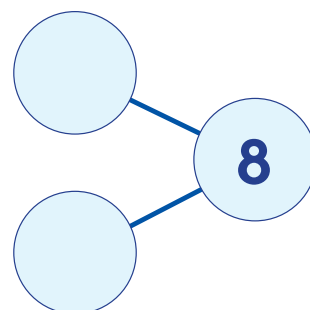
and  make 8.



(c)



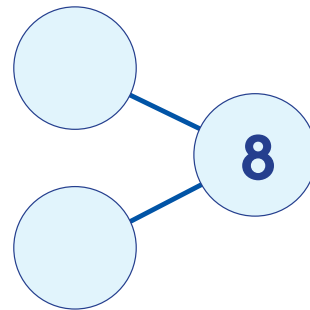
and  make 8.



(d)

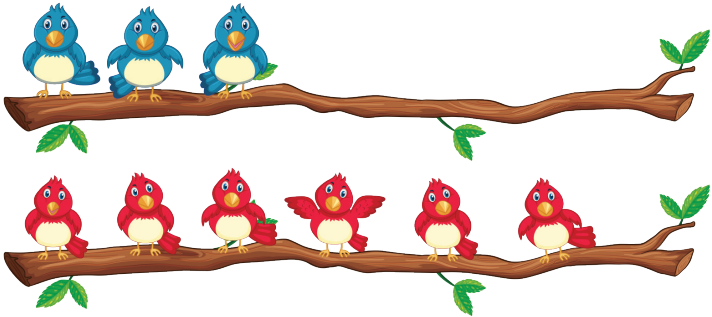


and  make 8.

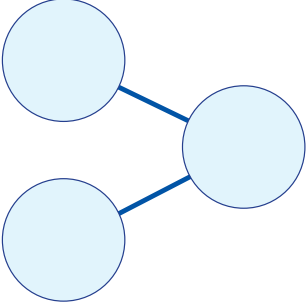


7. Fill in the blanks. Complete the number bonds of 9.

(a)



and  make 9.



(b)



and  make 9.



(c)

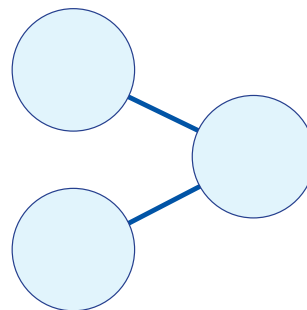
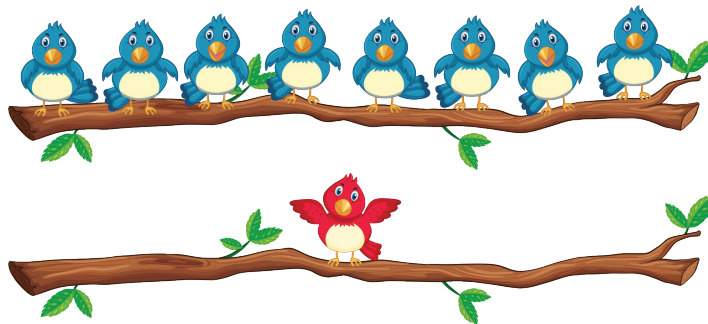


and  make 9.



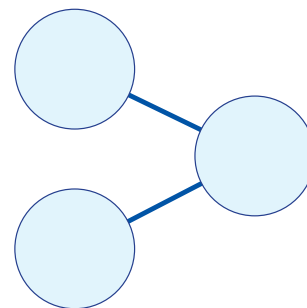
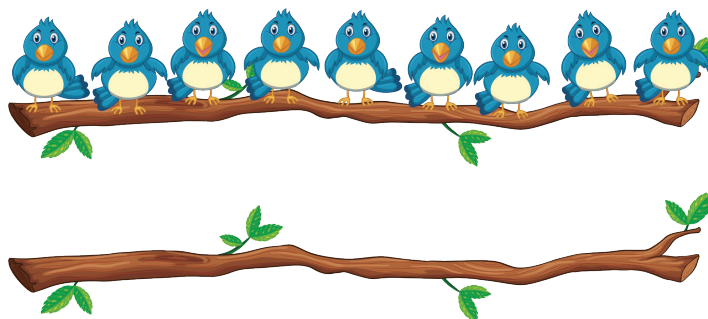


(d)



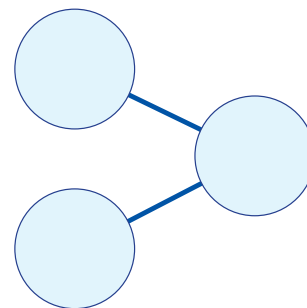
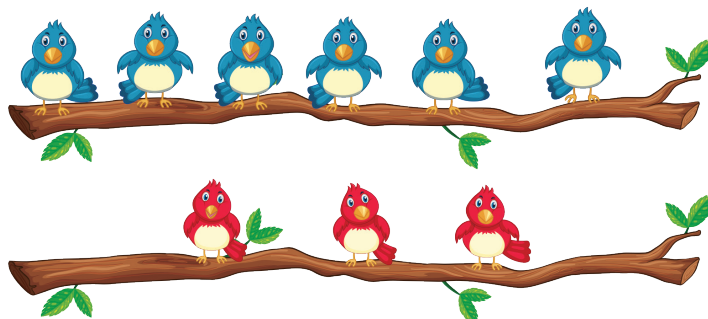
and  make .

(e)



and  make .

(f)

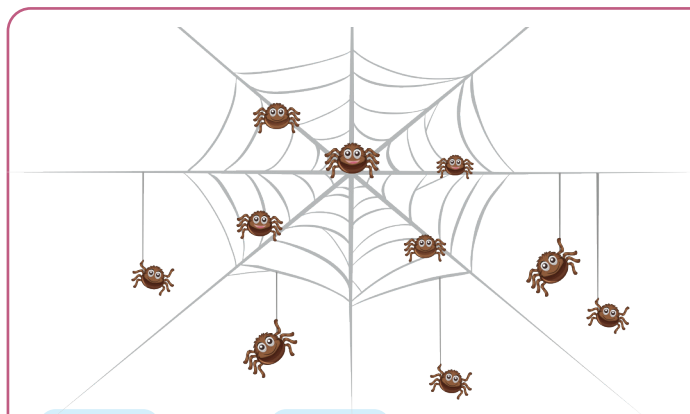


and  make .

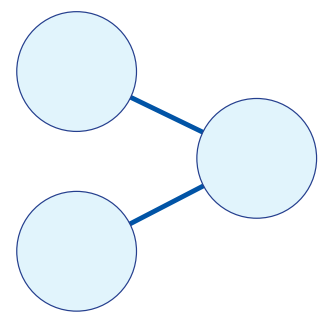


8. Fill in the blanks. Complete the number bonds of 10.

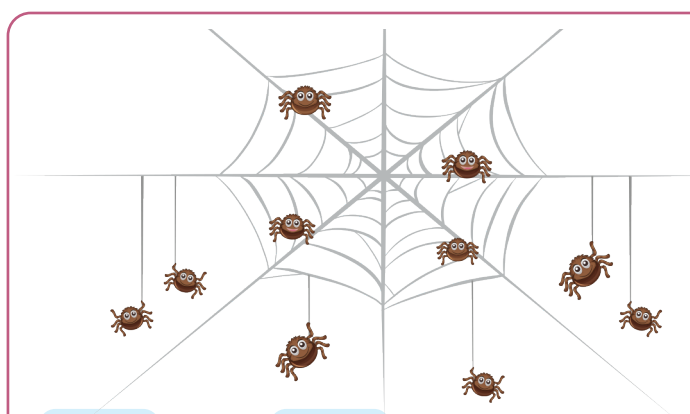
(a)



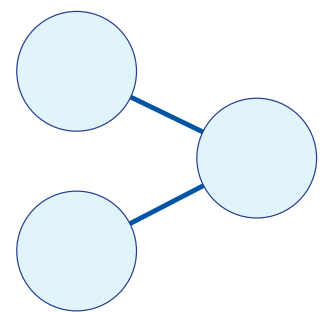
and  make 10.



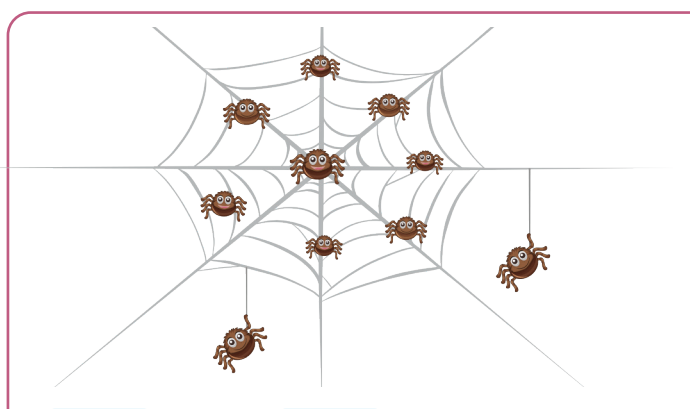
(b)



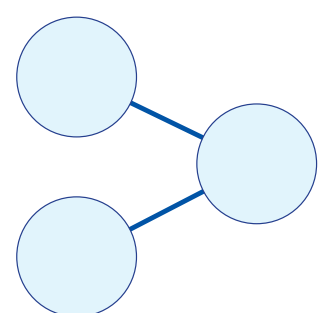
and  make 10.



(c)

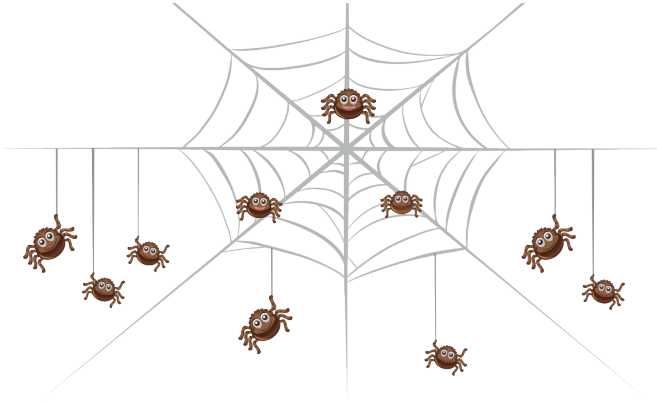
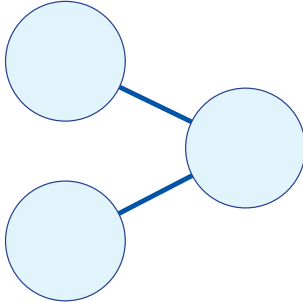


and  make 10.



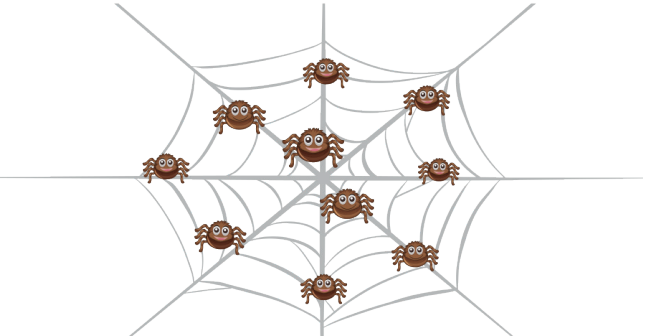
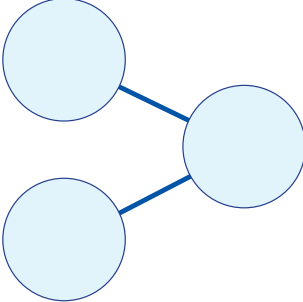


(d)

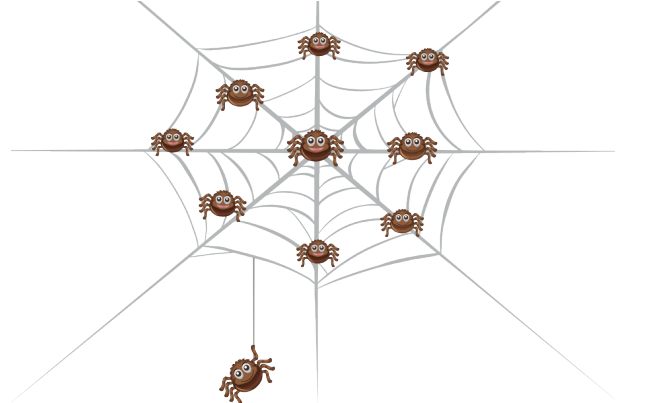
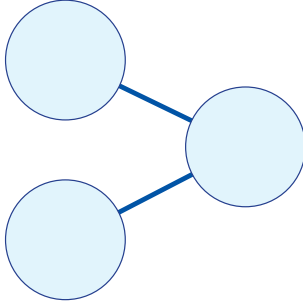
and  make .

(e)

and  make .

(f)

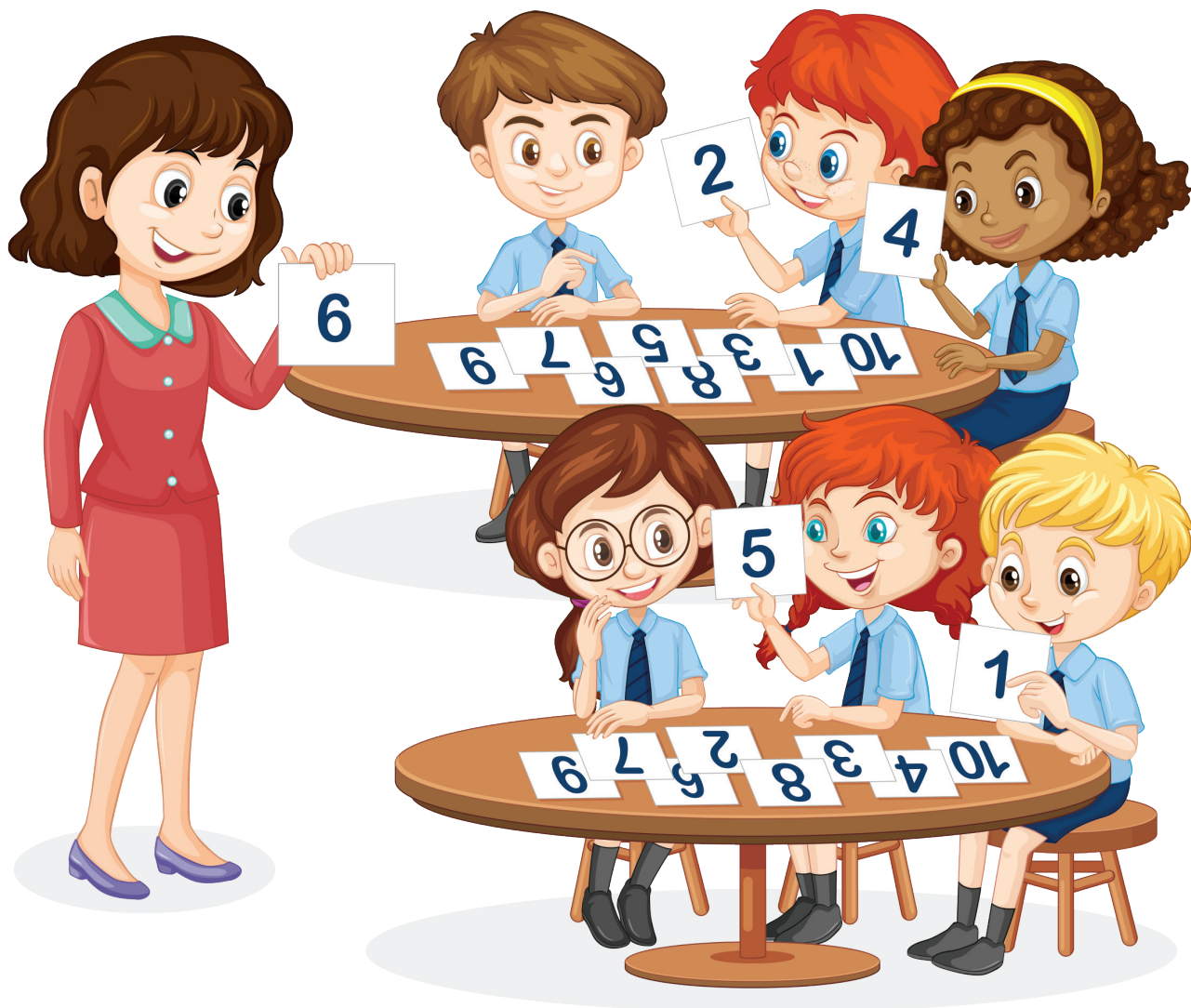



and  make .

## Hands On

Play this game in groups of 3 or 4.

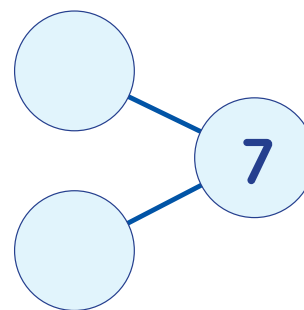
1. Place number cards on your table.
2. Listen to your teacher.
3. Find the cards to make the number bond.
4. How many ways can you make the number bond?





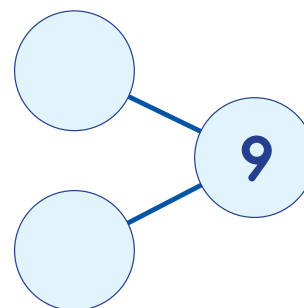
 **Solve It!**

1. Jordan places 7 counters on his notebook.  
He covers some of the counters.  
How many counters did he cover?  
Make a number bond to find the answer.



Jordan covered  counters.

2. Michelle places 9 counters on her notebook.  
She covers some of the counters.  
How many counters did she cover?  
Make a number bond to find the answer.

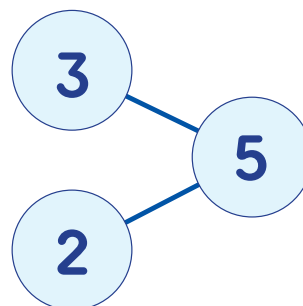


Michelle covered  counters.

 At Home

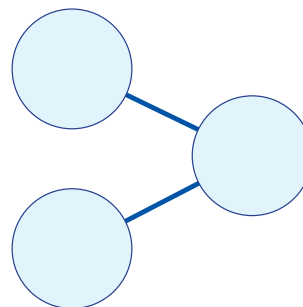
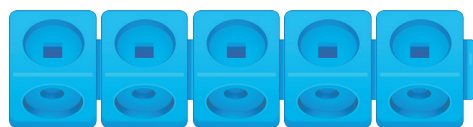
1. Complete the number bonds.

(a)



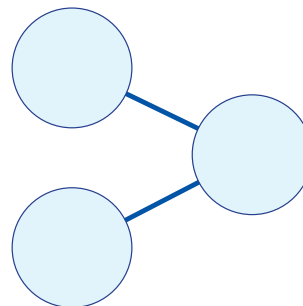
There are  in all.

(b)



There are  in all.

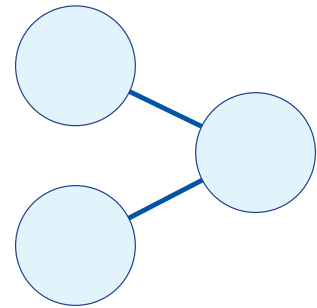
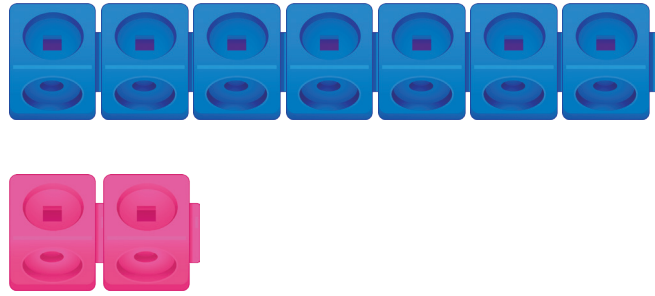
(c)



There are  in all.

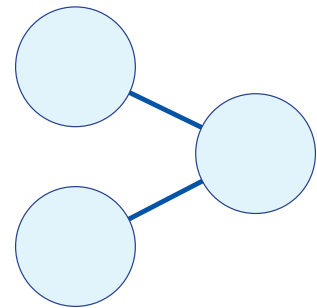
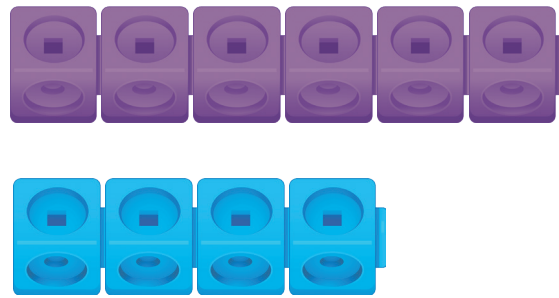


(d)



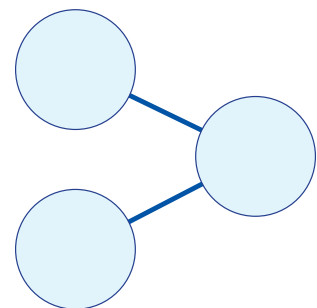
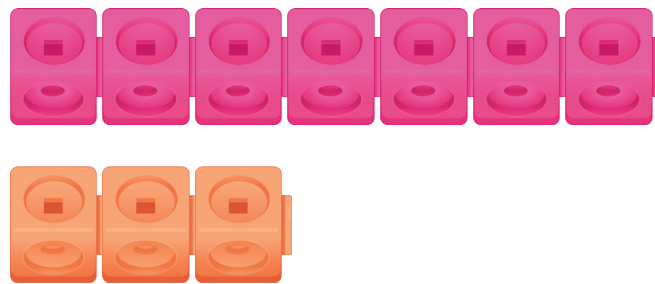
There are  in all.

(e)



There are  in all.

(f)

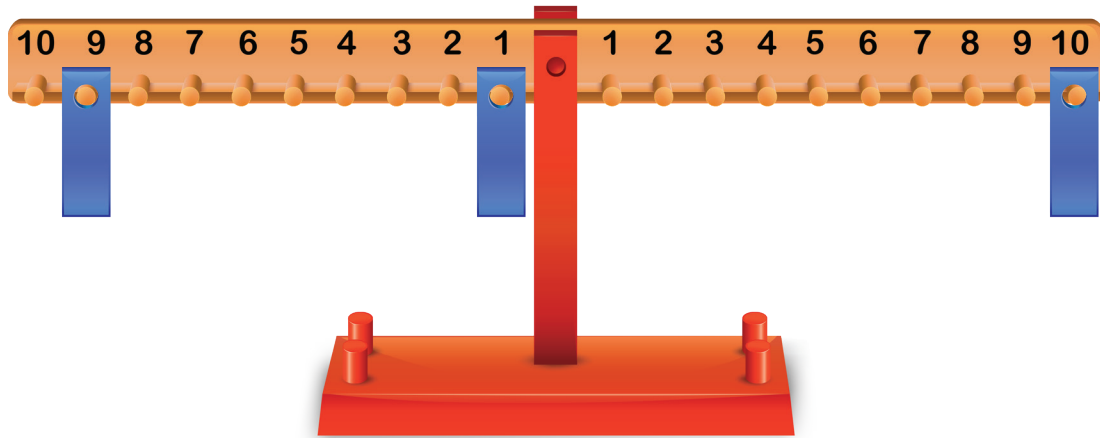


There are  in all.

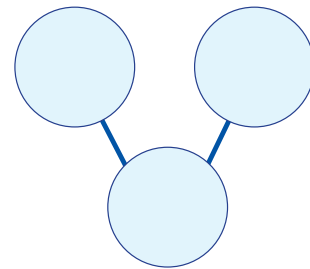


2. Complete the number bonds.

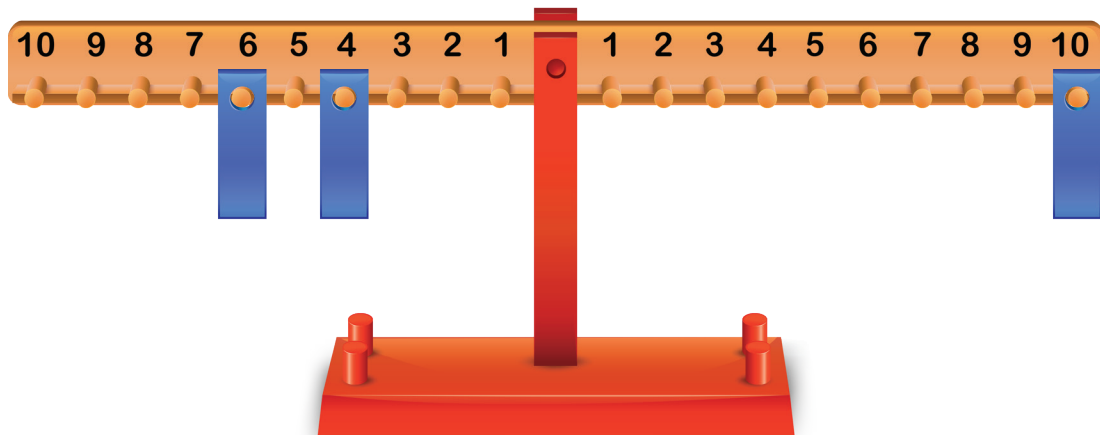
(a)



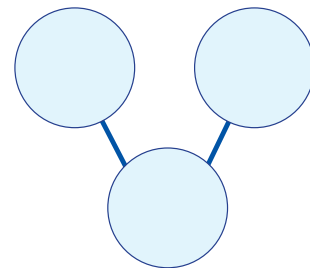
and  make 10.



(b)

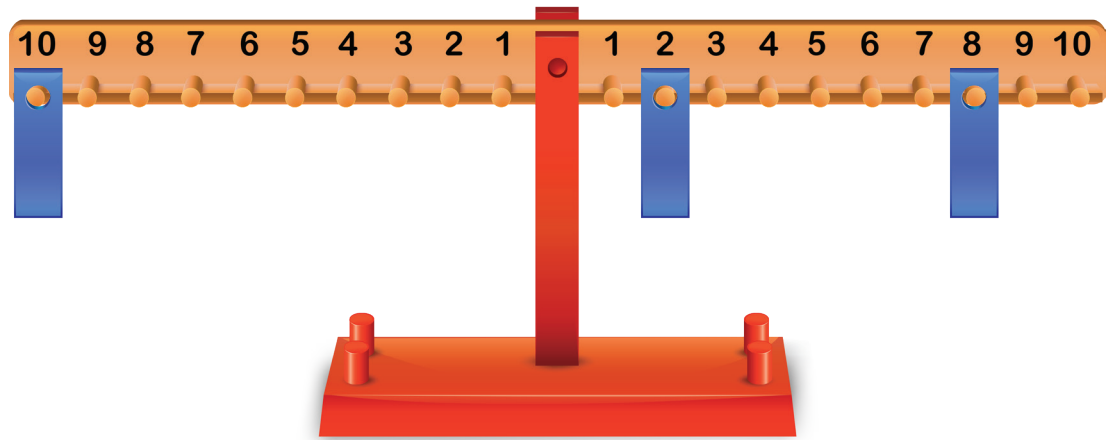


and  make 10.

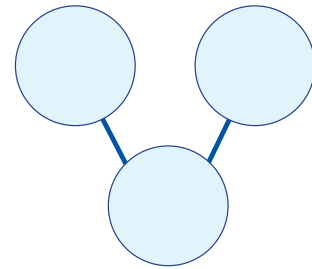




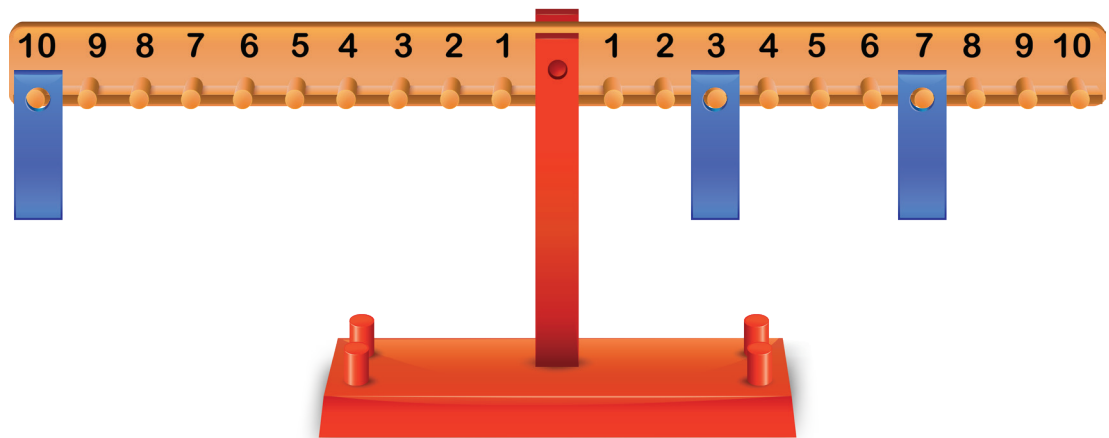
(c)



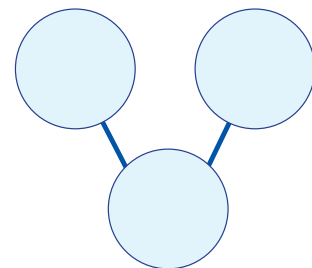
and  make 10.



(d)

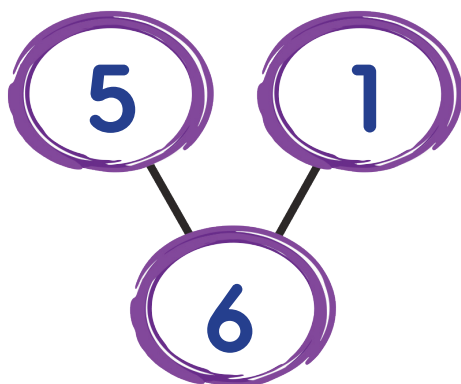


and  make 10.

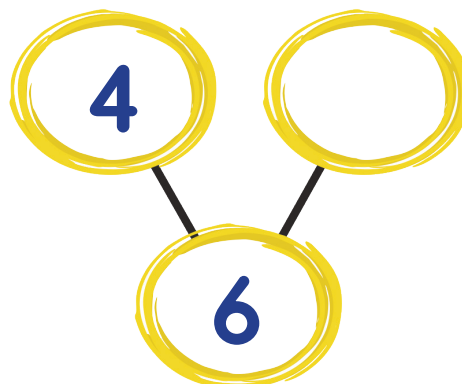


3. Complete the number bonds of 6.

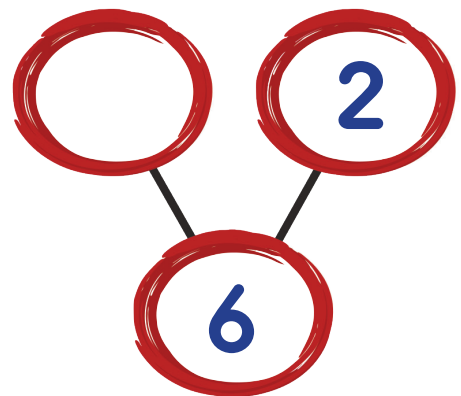
(a)



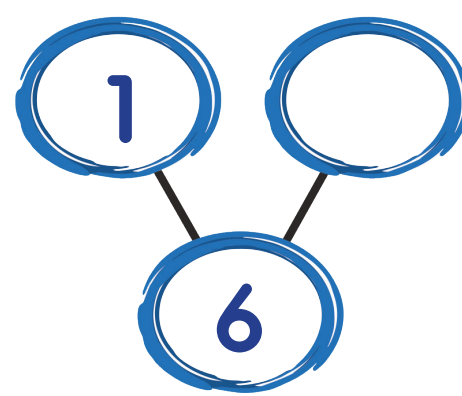
(b)



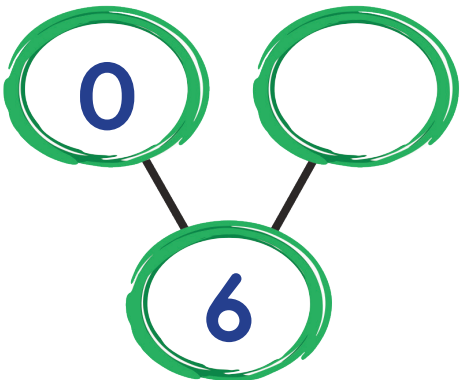
(c)



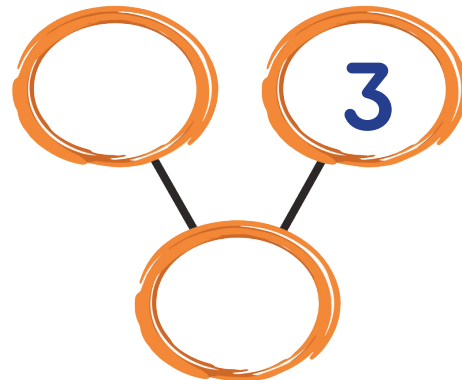
(d)



(e)

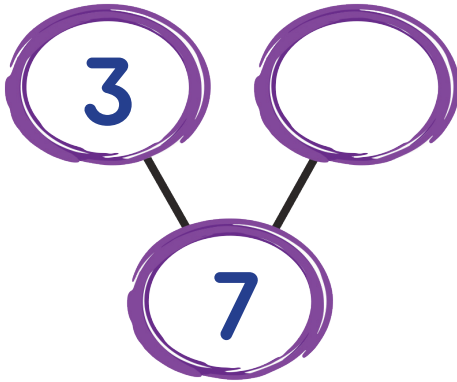


(f)

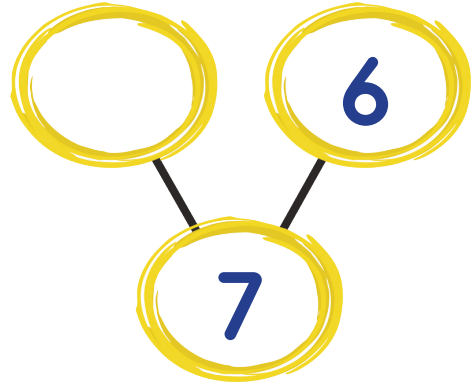


4. Complete the number bonds of 7.

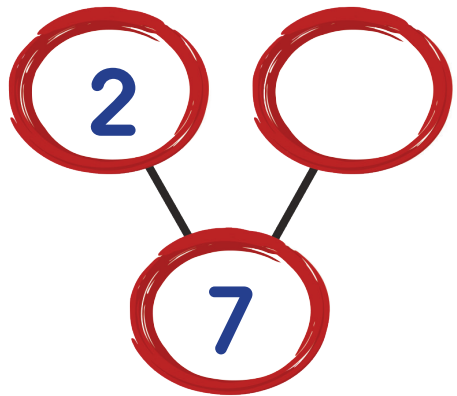
(a)



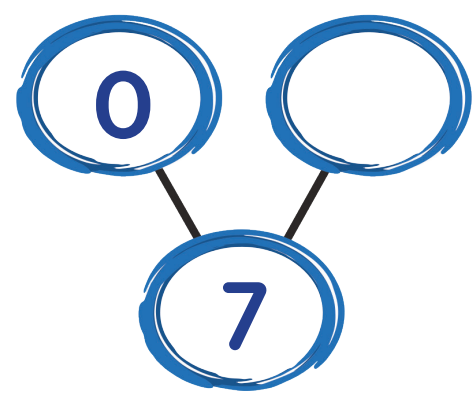
(b)



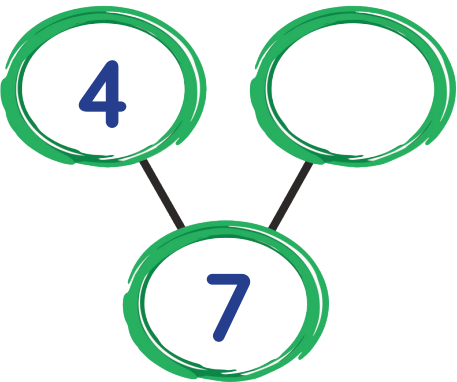
(c)



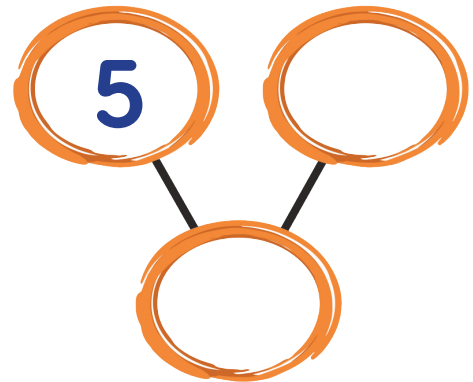
(d)



(e)

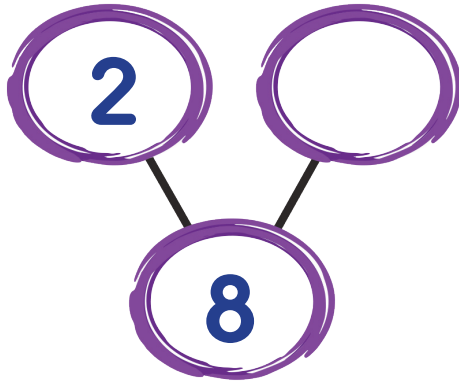


(f)

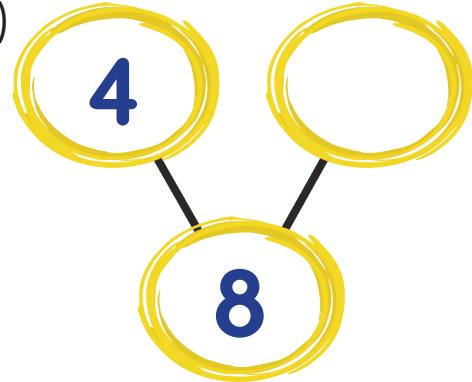


5. Complete the number bonds of 8.

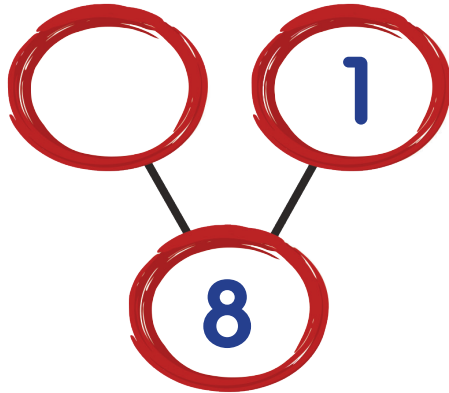
(a)



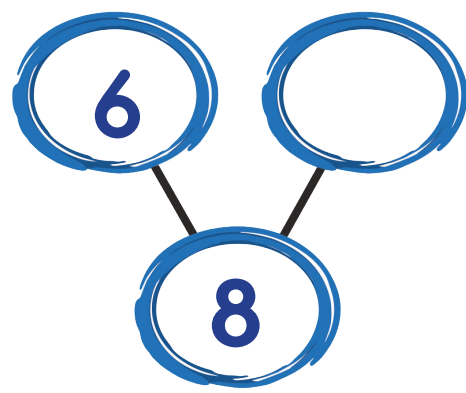
(b)



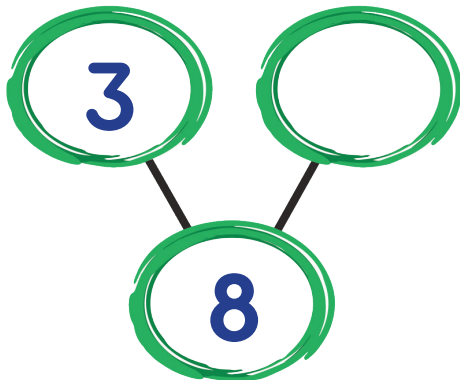
(c)



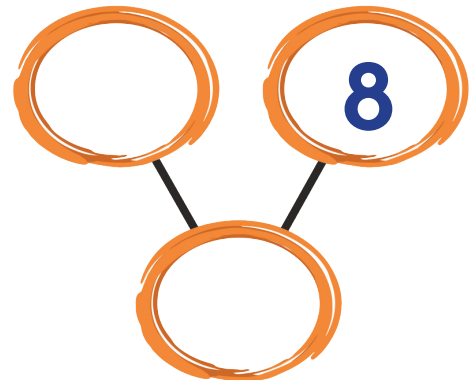
(d)



(e)

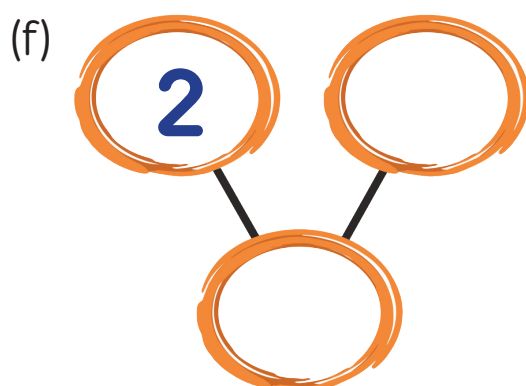
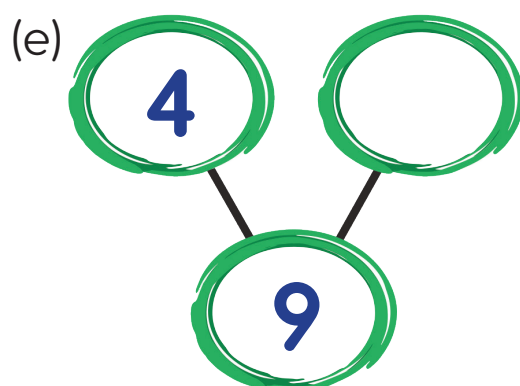
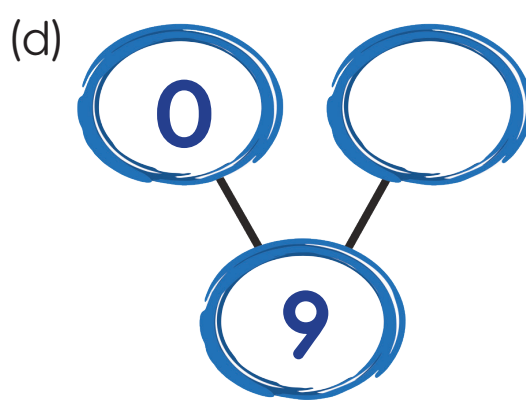
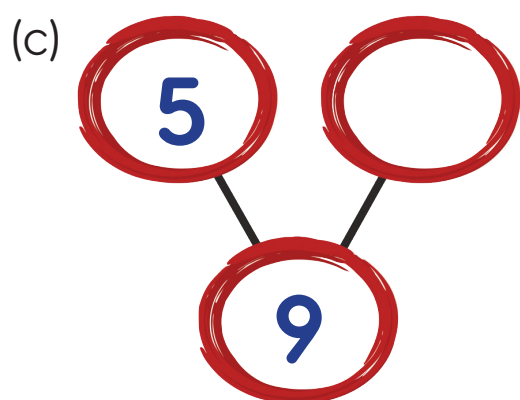
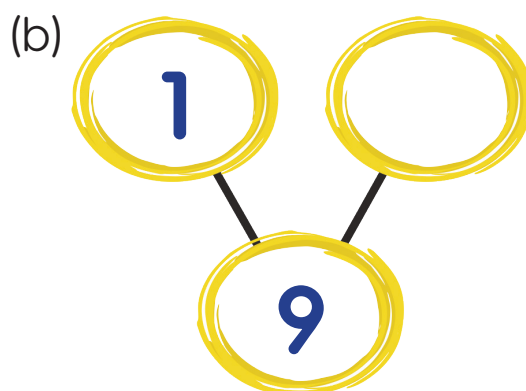
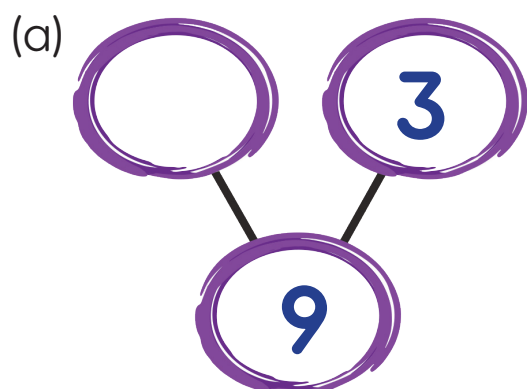


(f)





6. Complete the number bonds of 9.



7. Complete the number bonds of 10.

