SERIES A STUDENT BOOK Mathseeds

Operations

My Name

www.mathseeds.com

Mathseeds Operations Grade K Student Book

ISBN: 978-1-74215-375-9

Blake Publishing
Locked Bag 2022
Glebe NSW 2037
www.blake.com.au

Publisher: Katy Pike
Written by Sara Leman
Design and layout by the Modern Art Production Group

Contents

Topic 1: Addition to 7

Topic 2: Addition to 10

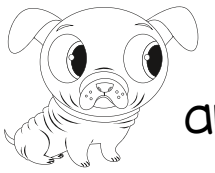
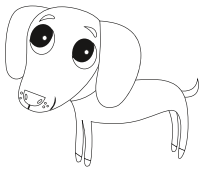
Contents

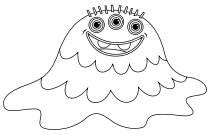
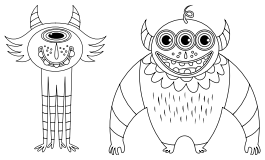
Topic 3: Subtraction

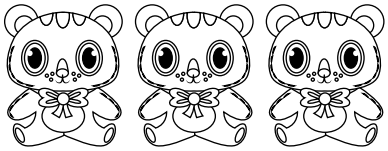
Topic 4: Sharing

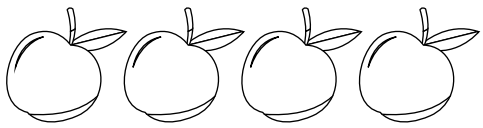
Add to 5

1 Count. Write the answer.

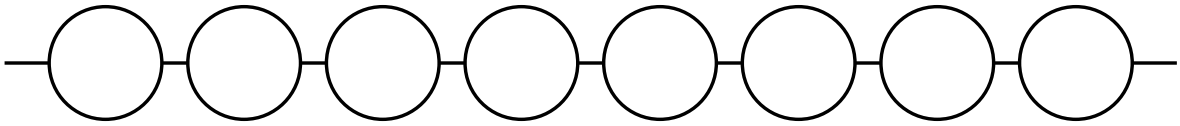
 and  makes ☐

 and  makes ☐

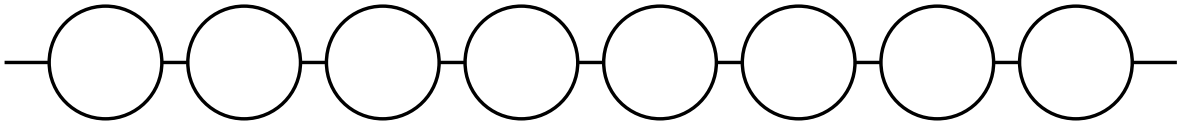
 and  makes ☐

 and  makes ☐

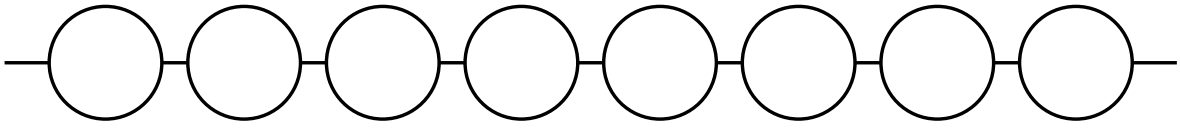
2 Colour and add.



1 and 2 makes ☐

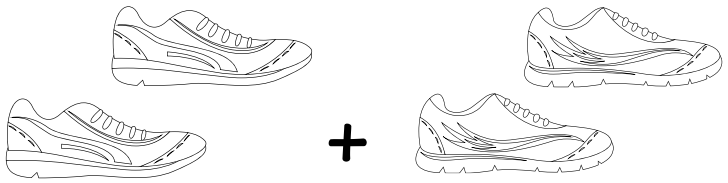


3 and 1 makes ☐

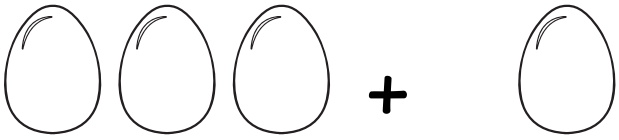


5 and 0 makes ☐

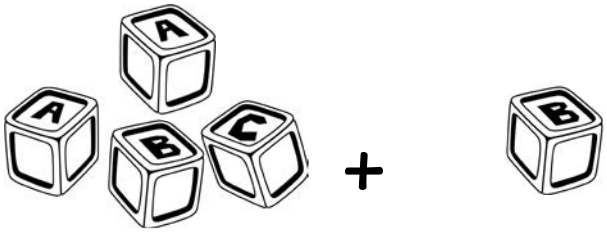
3 Count and add.



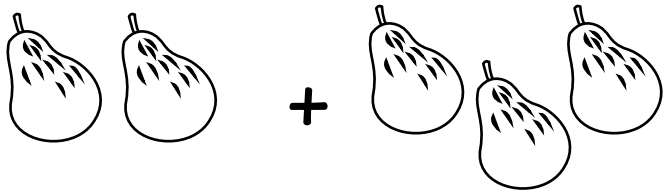
☐ and ☐ makes ☐



☐ and ☐ makes ☐



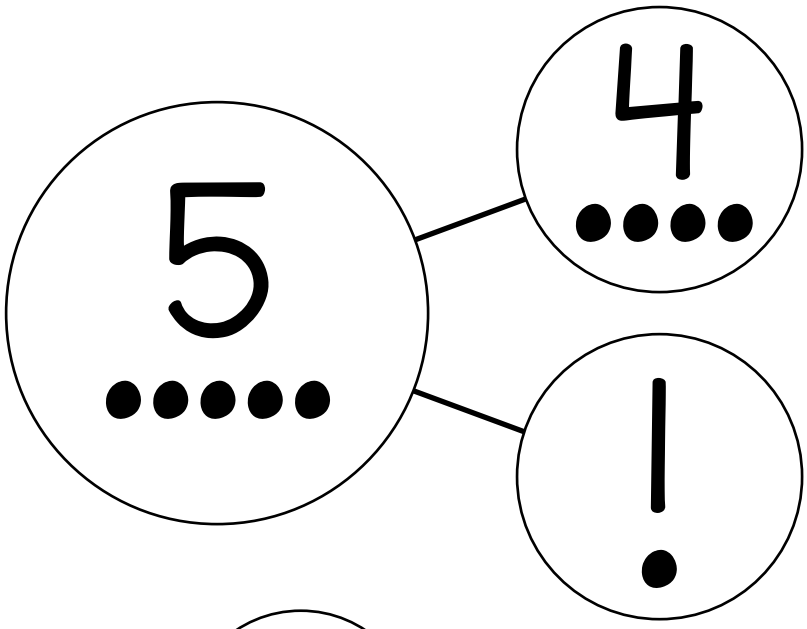
☐ and ☐ makes ☐

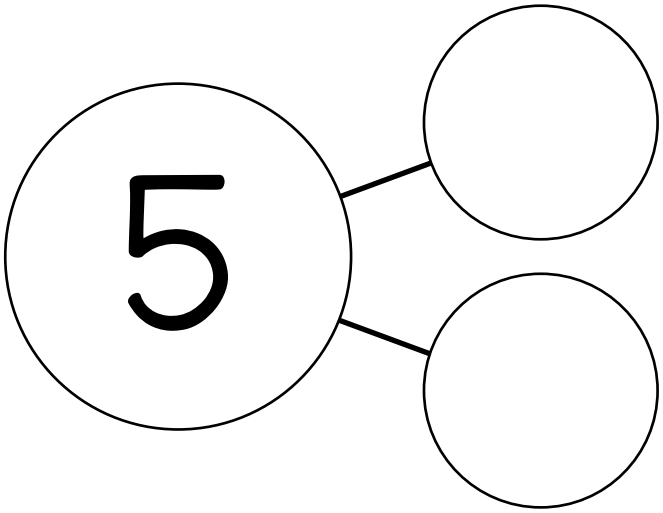


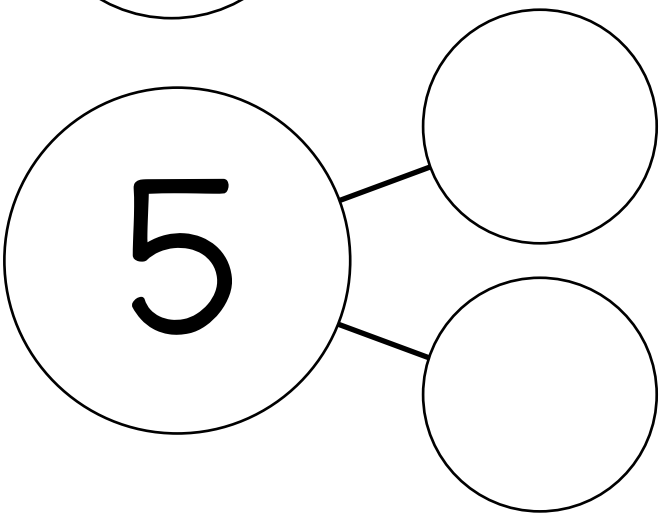
☐ and ☐ makes ☐

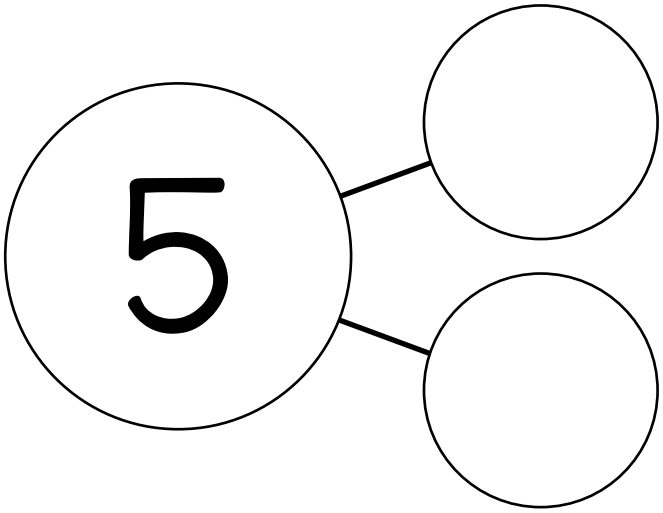
Making 5

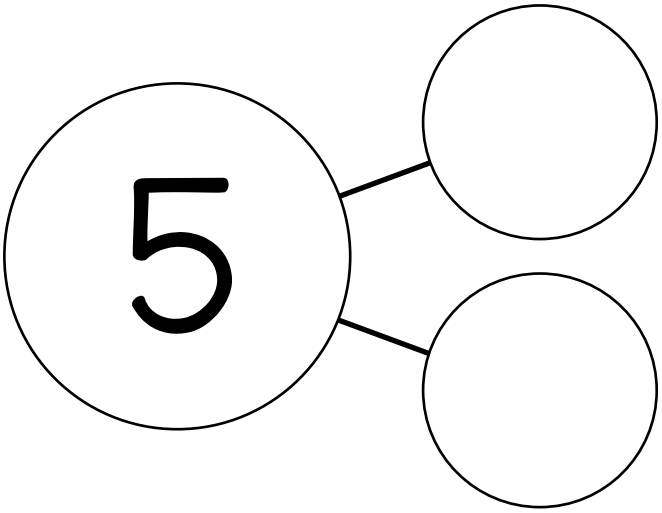
How many different ways can you make 5?











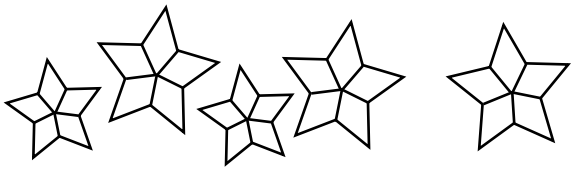
I made ☐ different ways.

Number sentences

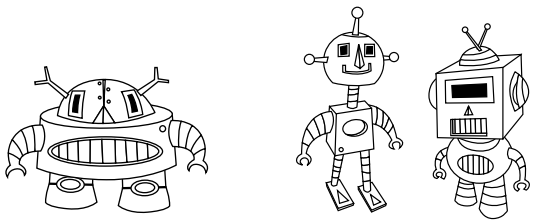
addition sign +	equals sign =

1 Count and add.

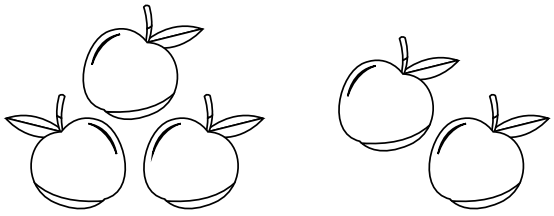
1	+	1	=	



	+		=	

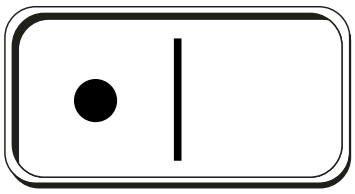


	+		=	

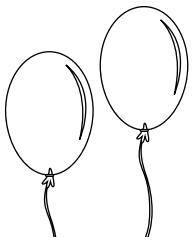


	+		=	

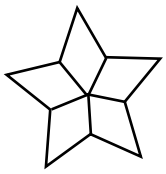
2 Draw and add to find the total.



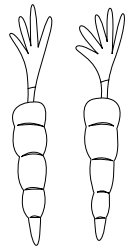
1 + 4 = ☐



2 + 2 = ☐

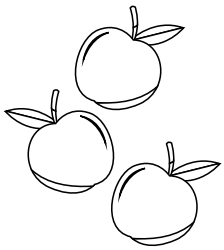


1 + 1 = ☐

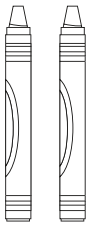


2 + 1 = ☐

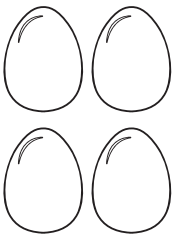
1 + 3 = ☐



3 + 2 = ☐



2 + 0 = ☐

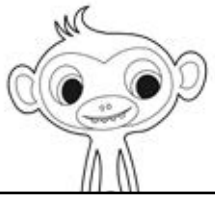


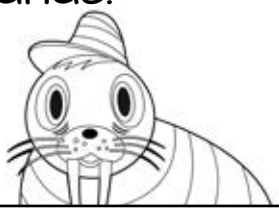
4 + 1 = ☐

Word problems 1

Word problems +

1 Mango has 3 bananas. Waldo has 2 bananas.



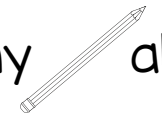


Draw.

How many  altogether?

2 Doc has 2 pencils. Dizzy has 1 pencil.

Draw.

How many  altogether?

Pitstop addition

Game

You will need a die, counters and a partner.

Start

Finish

2 + 2 =

4 + 0 =

3 + 2 =

1 + 4 =

5 + 0 =

3 + 1 =

1 + 2 =

4 + 1 =

2 + 0 =

2 + 3 =

1 + 0 =

2 + 1 =

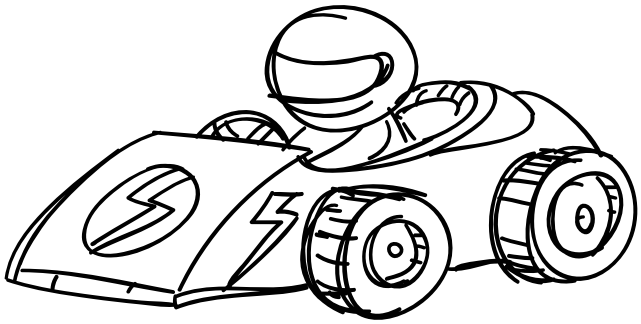
1 + 1 =

3 + 0 =

1 + 3 =

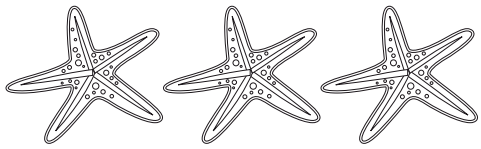
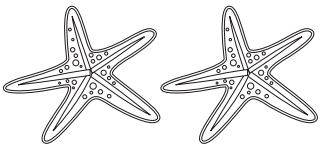
HOW TO PLAY

1. Both players put their markers on the 'Start'.
2. Take it in turns.
3. Each player solves the addition sum on the 'pitstop' they land on.
4. Check other's answers. Move back one place if you get it wrong.
5. The winner is the first to reach the 'Finish' line.



Add to 6

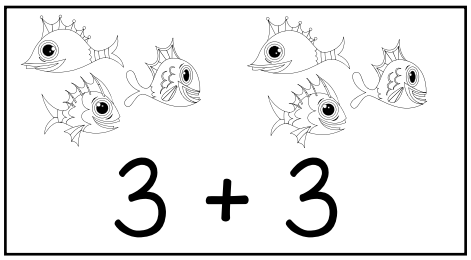
1 Count to find the total.

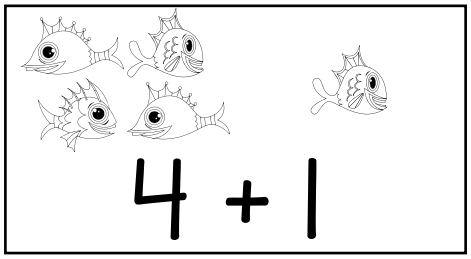
 and  makes ☐

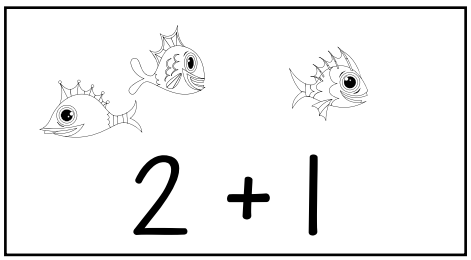
 and  makes ☐

 and  makes ☐

2 Join Waldo's sums to the answers.





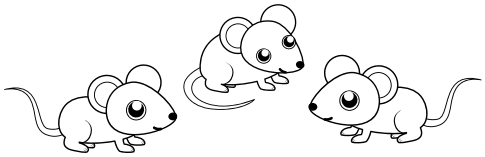


3

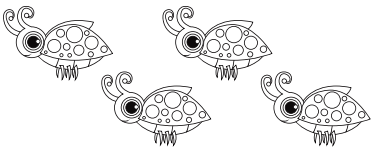
6

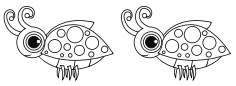
5

3 Count and add.



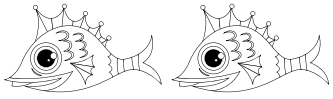
3 + 1 = ☐

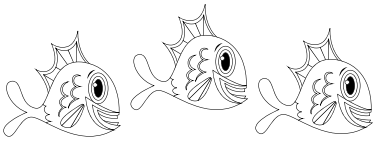




4 + 2 = ☐

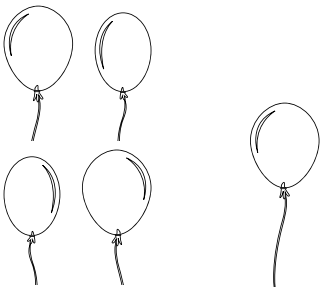
3 + 3 = ☐



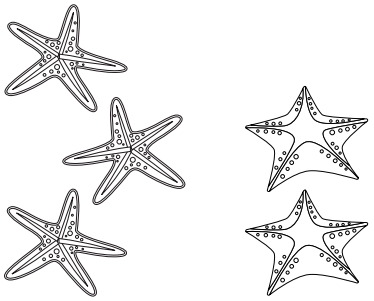


2 + 3 = ☐

4 Write an addition number sentence for each picture.



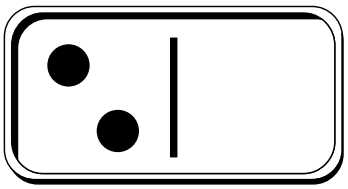
☐ + ☐ = ☐



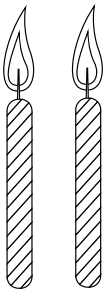
☐ + ☐ = ☐

Find the total

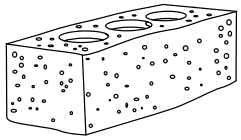
1 Draw and then find the total.



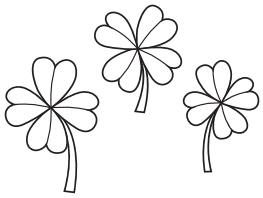
2 and 2 makes ☐



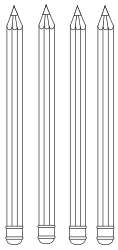
2 + 4 = ☐



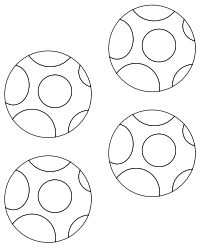
1 + 3 = ☐



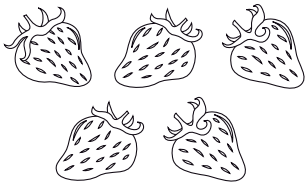
3 + 3 = ☐



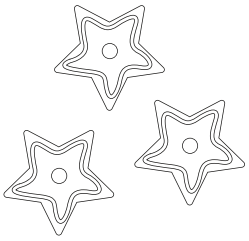
4 + 0 = ☐



4 + 2 = ☐



5 + 1 = ☐

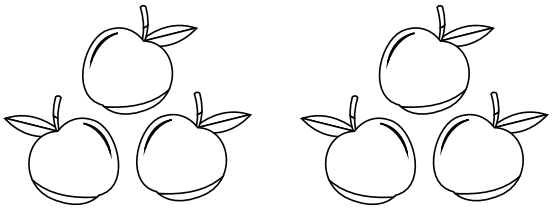


3 + 2 = ☐

Number sentences

1 Fill in the number sentences.

□ + □ = □



□ + □ = □

2 Draw two groups to make the total.

□ + □ = 6

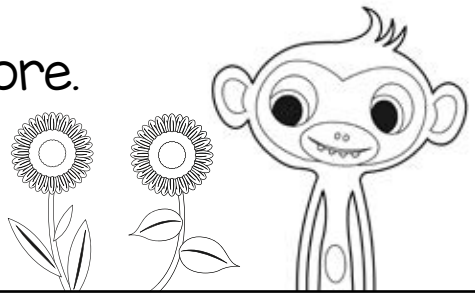
□ + □ = 5

□ + □ = 4

Word problems 2

Word problems +

1 Mango has 2 flowers. She picks 3 more.
How many flowers in total?

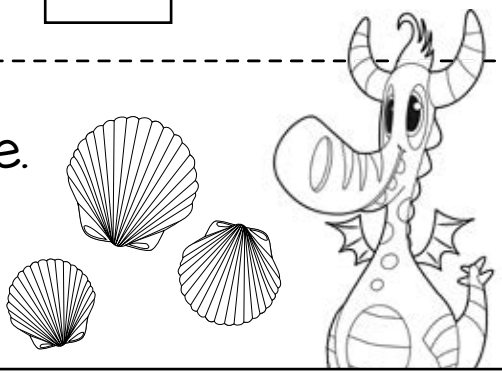


Draw. Write the numbers.

and

☐ + ☐ = ☐

2 Dizzy has 3 shells. He finds 3 more.
How many shells in total?



Draw. Write the numbers.

and

☐ + ☐ = ☐

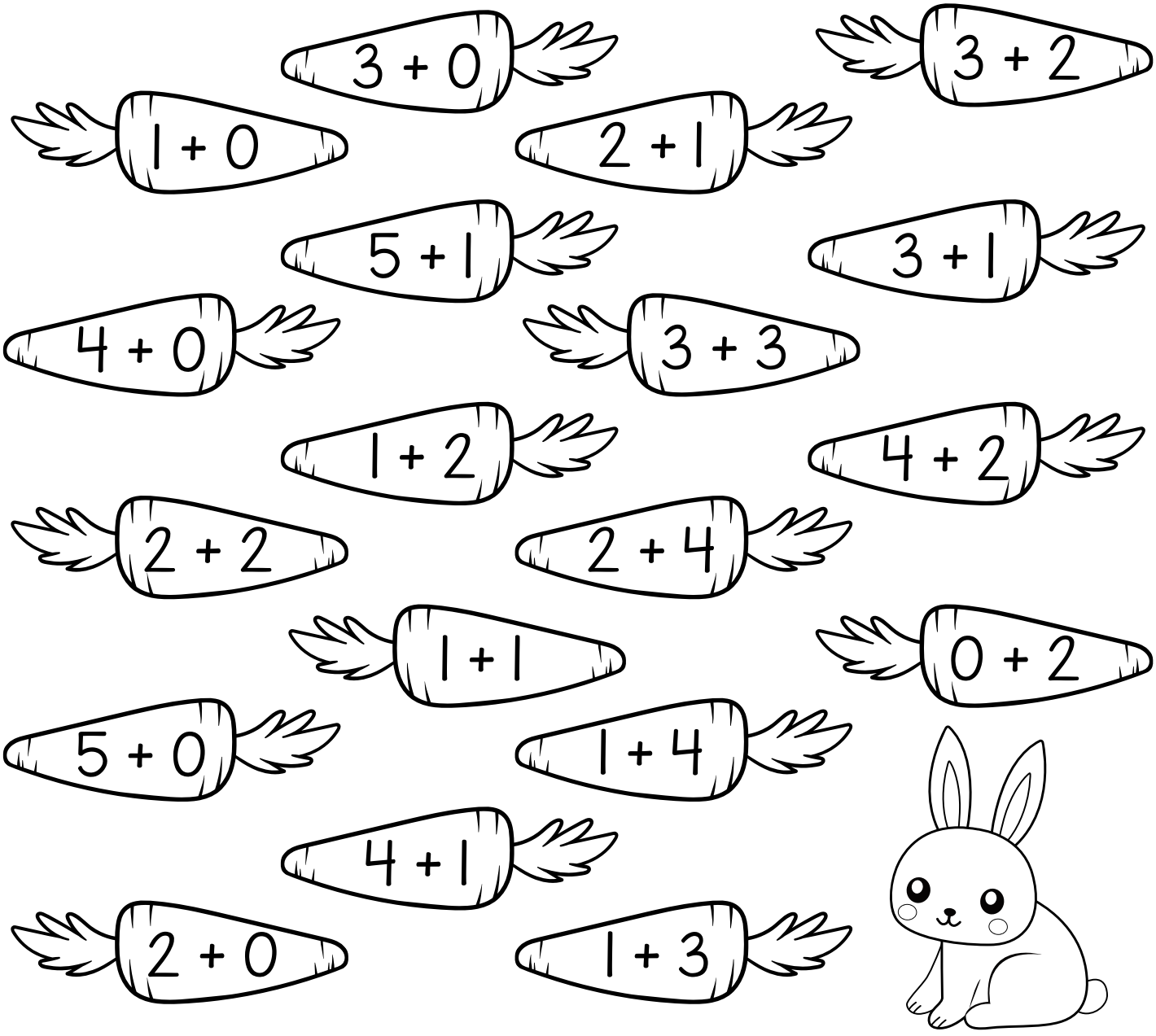
Bunny hops

Game

You will need:
a die, 2 coloured pencils (one for each player) and a partner.

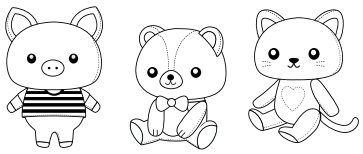
HOW TO PLAY

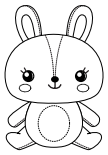
1. Take turns. Roll the die.
2. Colour the carrot sum that matches the number rolled.
3. Miss a turn if you can't make a match.
4. The first person to colour 10 carrots wins.



Add to 7

1 Count and add.

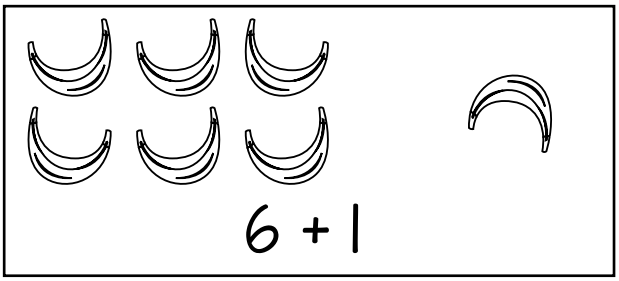


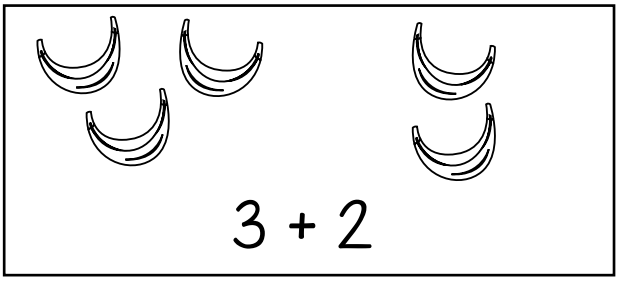


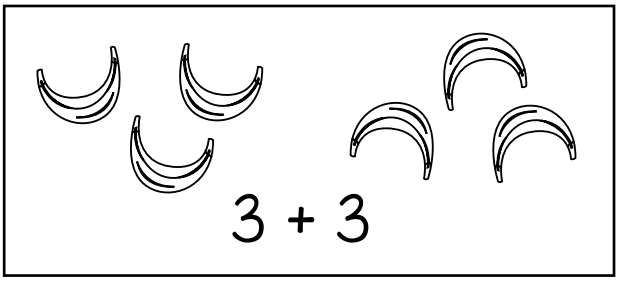
☐ and ☐ makes ☐

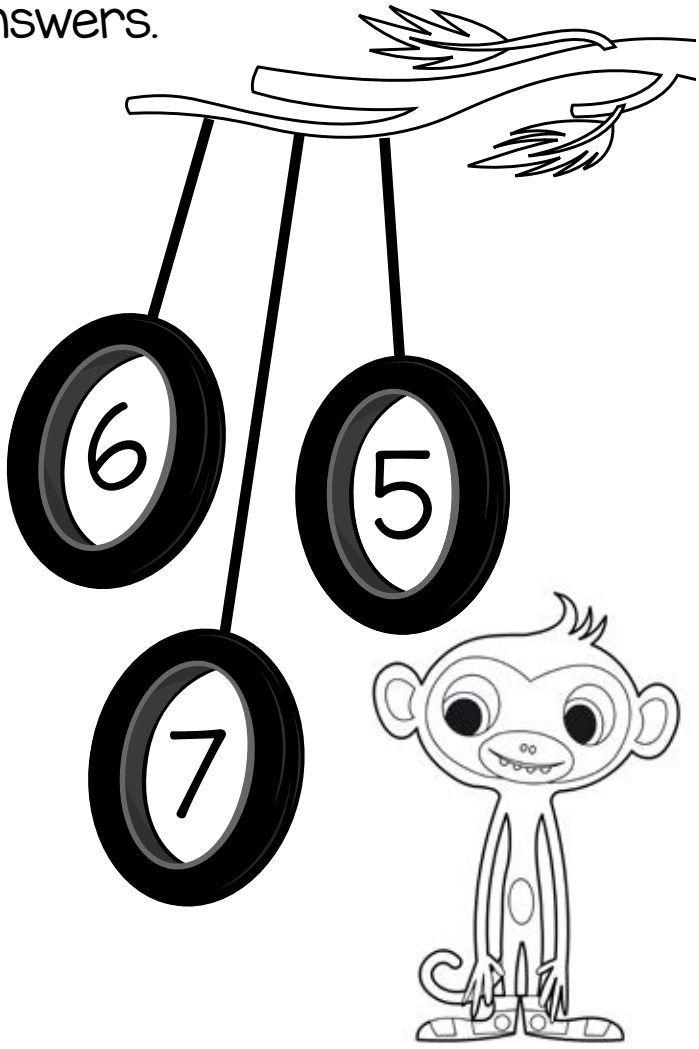
☐ and ☐ makes ☐

2 Join Mango's sums to the answers.

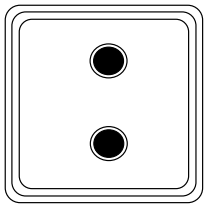




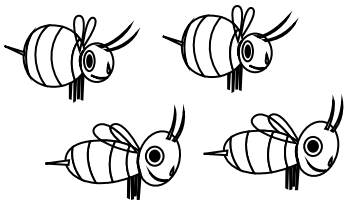




3 Draw and find the total.

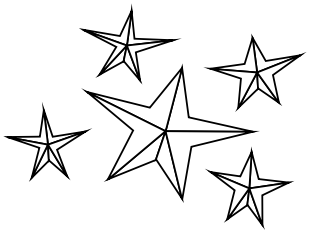


2 and 5 makes ☐



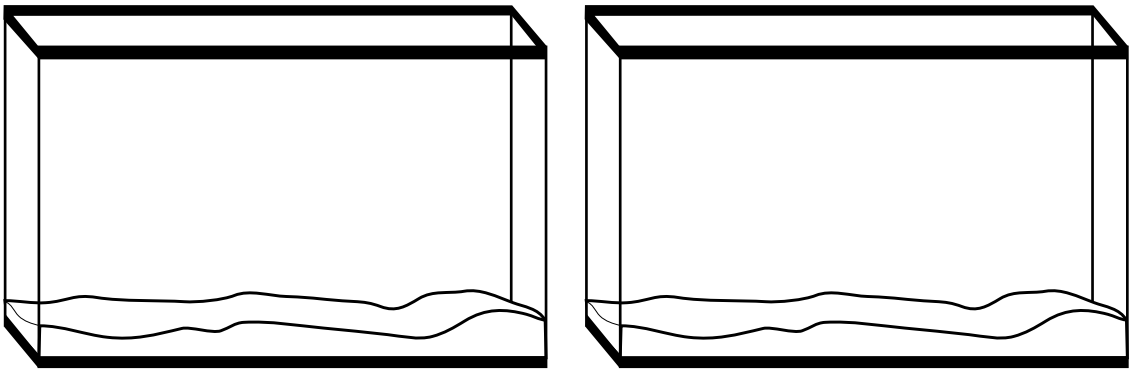
4 and 2 makes ☐

3 and 4 makes ☐



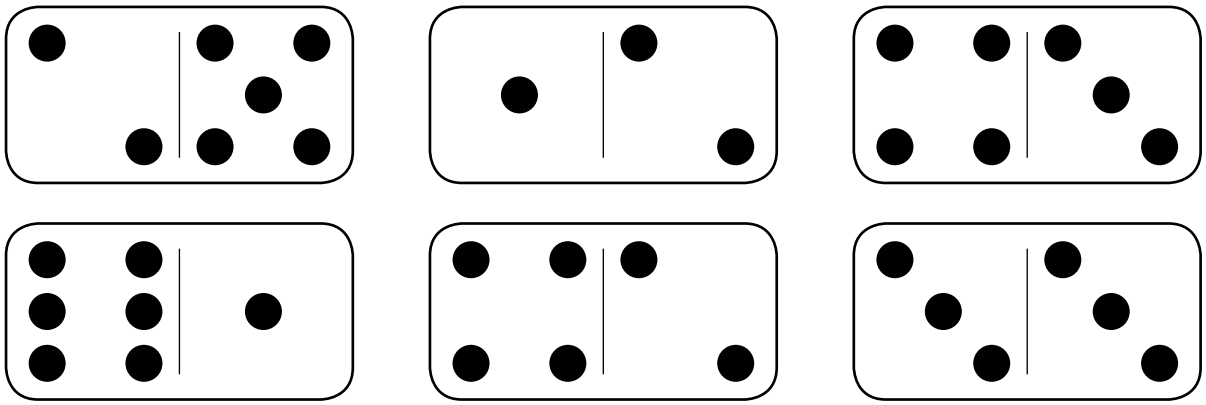
5 and 1 makes ☐

4 Draw.

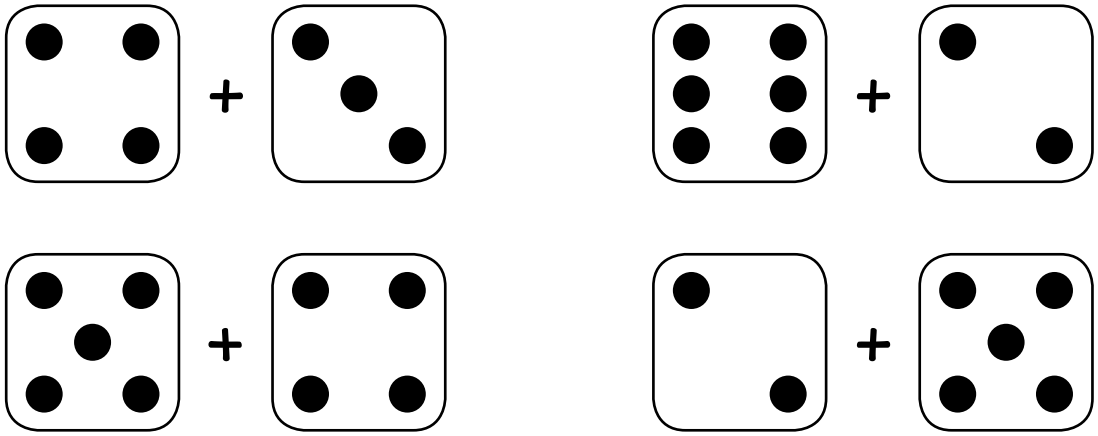


3 fish + 4 fish = ☐ fish

5 Colour the dominoes that add up to 7.

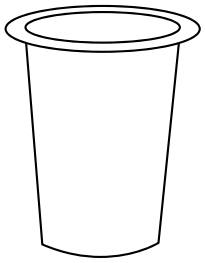


6 Circle the pairs that add up to 7.

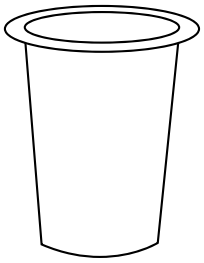


Number sentences

1 Draw.



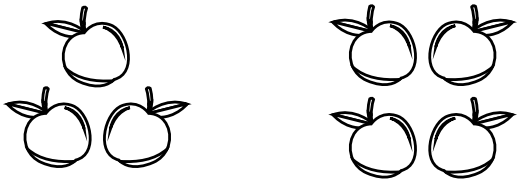
4 straws



3 straws

☐ + ☐ = ☐ straws

2 Fill in the number sentences.



☐ + ☐ = ☐

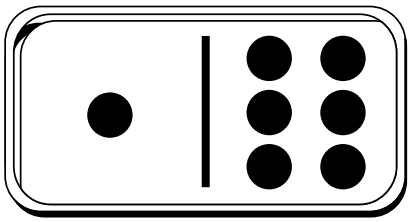
☐ + ☐ = ☐

☐ + ☐ = ☐

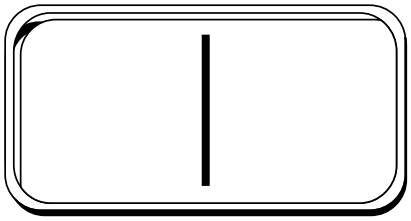
Problem solving

0 – 7

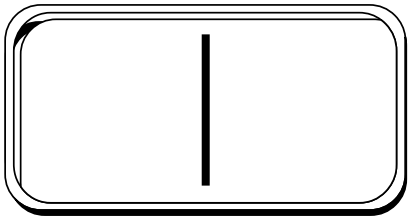
Show 6 ways to add to 7.



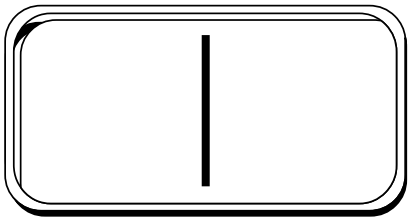
☐ + ☐ = 7



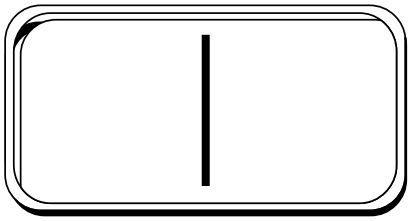
☐ + ☐ = 7



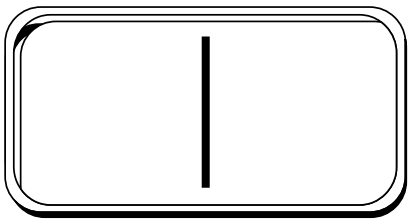
☐ + ☐ = 7



☐ + ☐ = 7



☐ + ☐ = 7



☐ + ☐ = 7

Make 7

Game

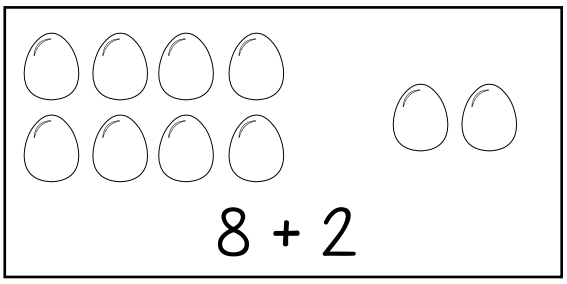
You will need a pencil  .

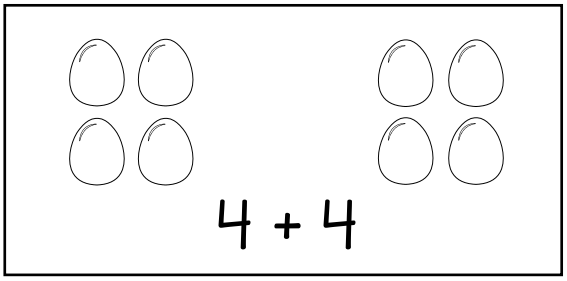
Circle each pair of numbers that add to 7. The numbers must be next to each other. How many can you find?

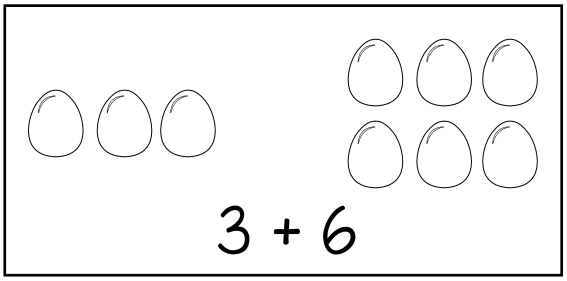
3	2	5	4	3
6	1	0	5	1
2	3	4	0	3
0	7	6	5	2
3	2	7	0	6
1	6	3	5	4

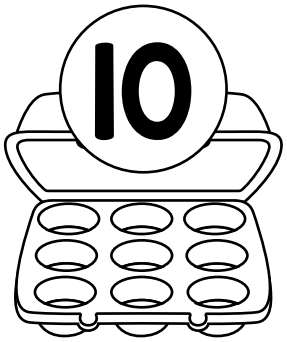
Add to 10

1 Join Ruby's sums to the answers.



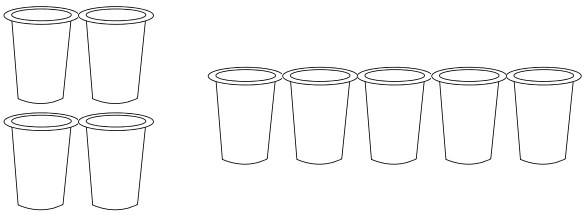




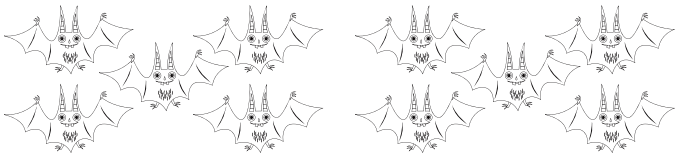


2 Complete the number sentences.

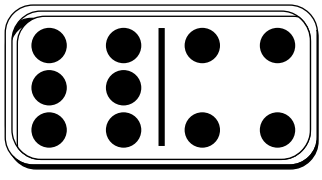
5 + 3 = ☐



4 + ☐ = ☐



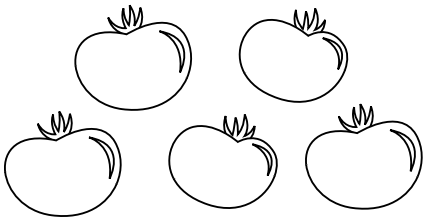
5 + ☐ = ☐



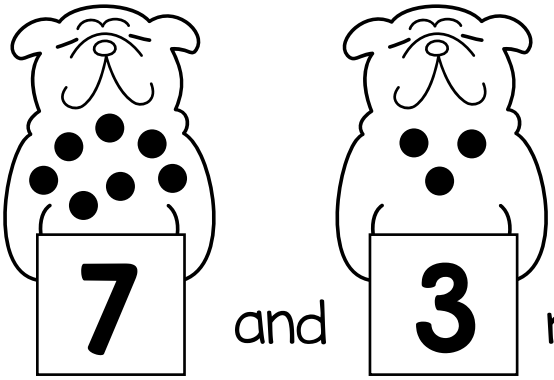
☐ + ☐ = ☐

3 Draw and add.

6 and 4 makes ☐

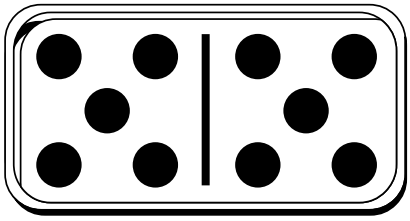


5 and 4 makes ☐

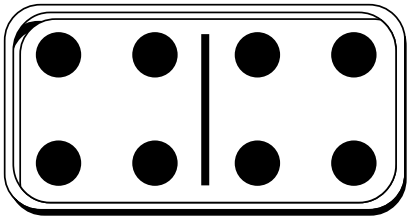


7 and 3 makes ☐

4 Complete the number sentences.



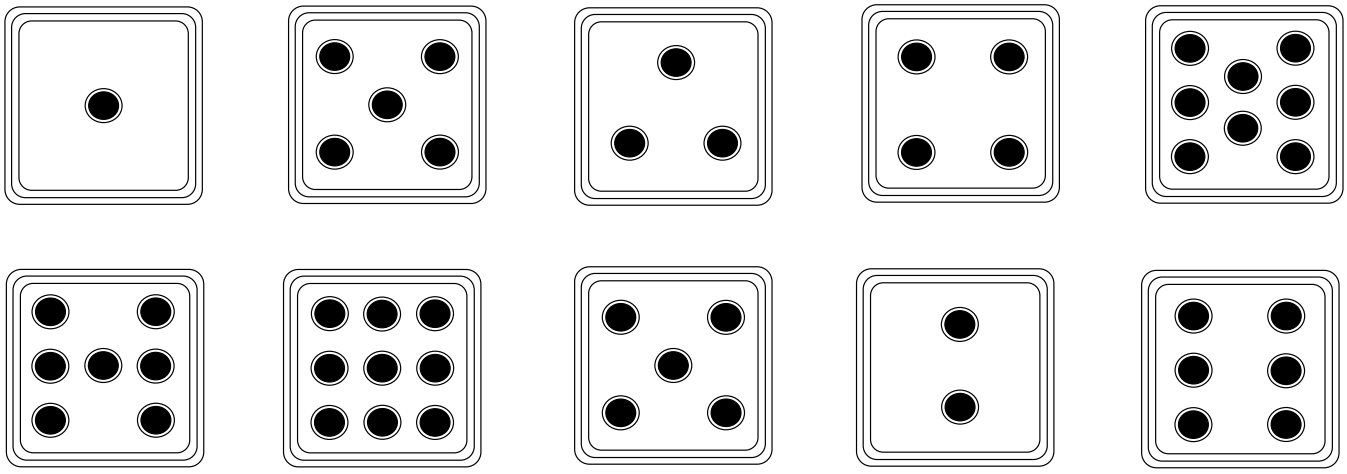
☐ + ☐ = ☐



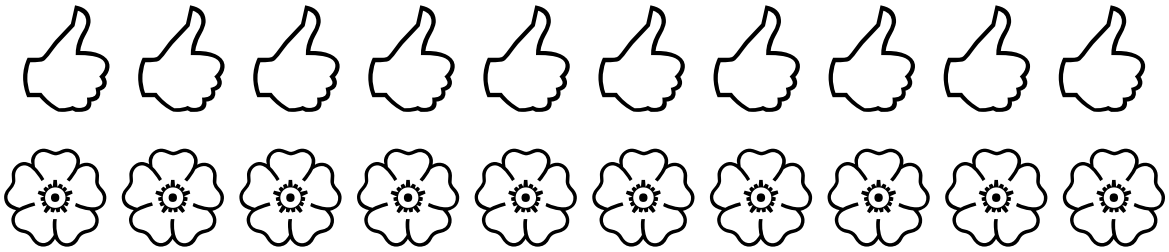
☐ + ☐ = ☐

Making 10

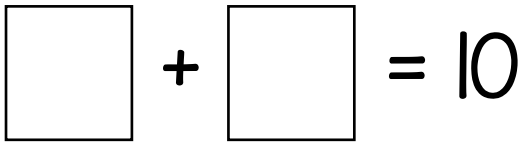
1 Join the pairs to make 10.



2 Use colour to show 2 different ways to make 10.



3 Make 10 using 2 colours. Write the sum.



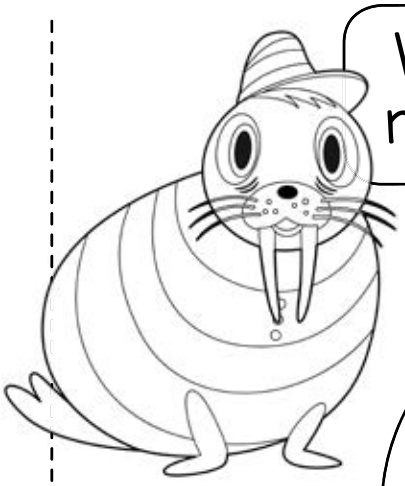
4 Write the answers.

6 and 2 is ☐ 4 and 5 is ☐ 3 and 5 is ☐

5 + 5 = ☐ 7 + 1 = ☐ 3 + 6 = ☐

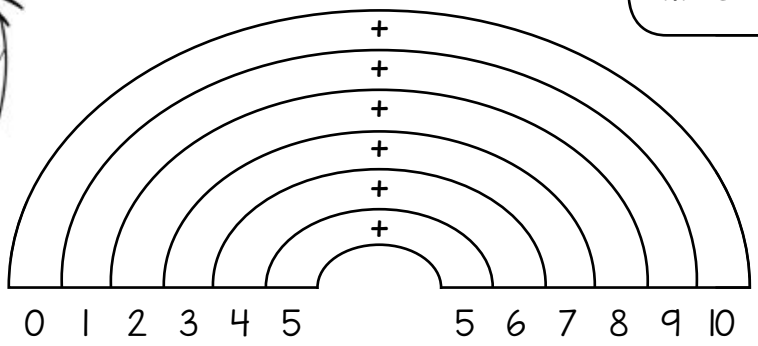
Rainbow facts to 10

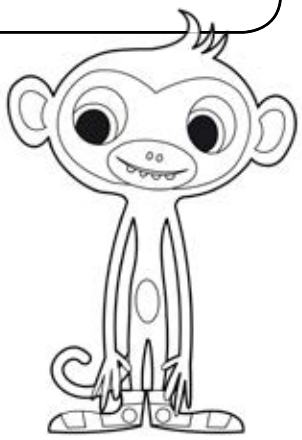
Practical +



We can add pairs of numbers to make 10.

Colour to make it look like a rainbow!



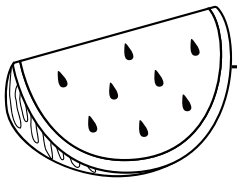


Write the missing number.

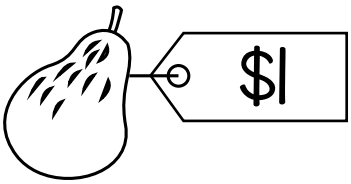
☐ + 10 = 10	10 + ☐ = 10
☐ + 9 = 10	9 + ☐ = 10
☐ + 8 = 10	8 + ☐ = 10
☐ + 7 = 10	7 + ☐ = 10
☐ + 6 = 10	6 + ☐ = 10
☐ + 5 = 10	5 + ☐ = 10

Adding money

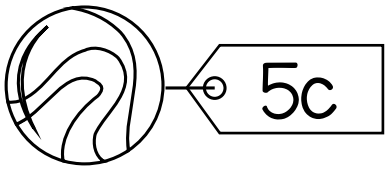
How much do they cost altogether?



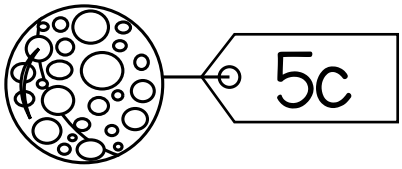
+



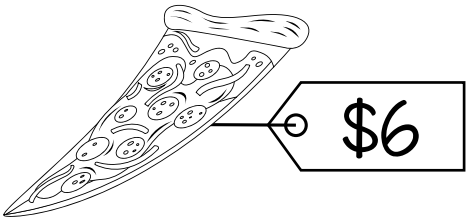
=



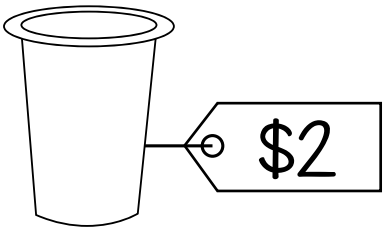
+



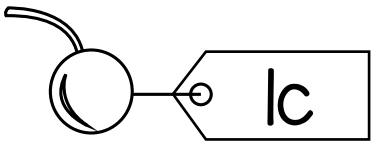
=



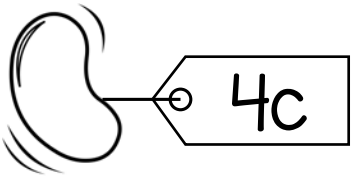
+



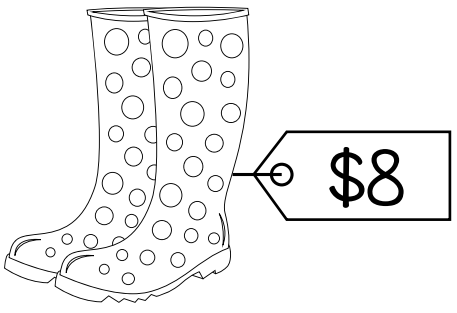
=



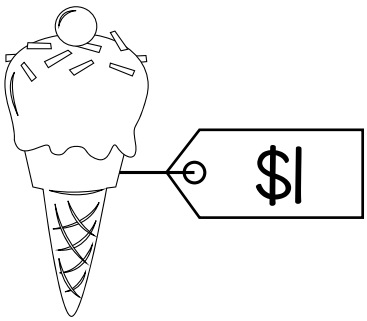
+



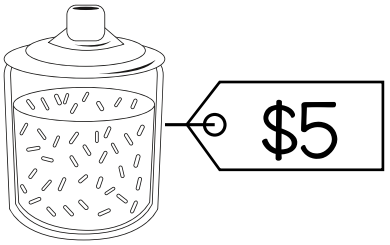
=



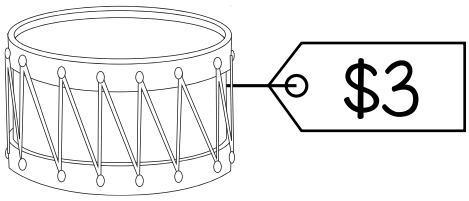
+



=



+



=

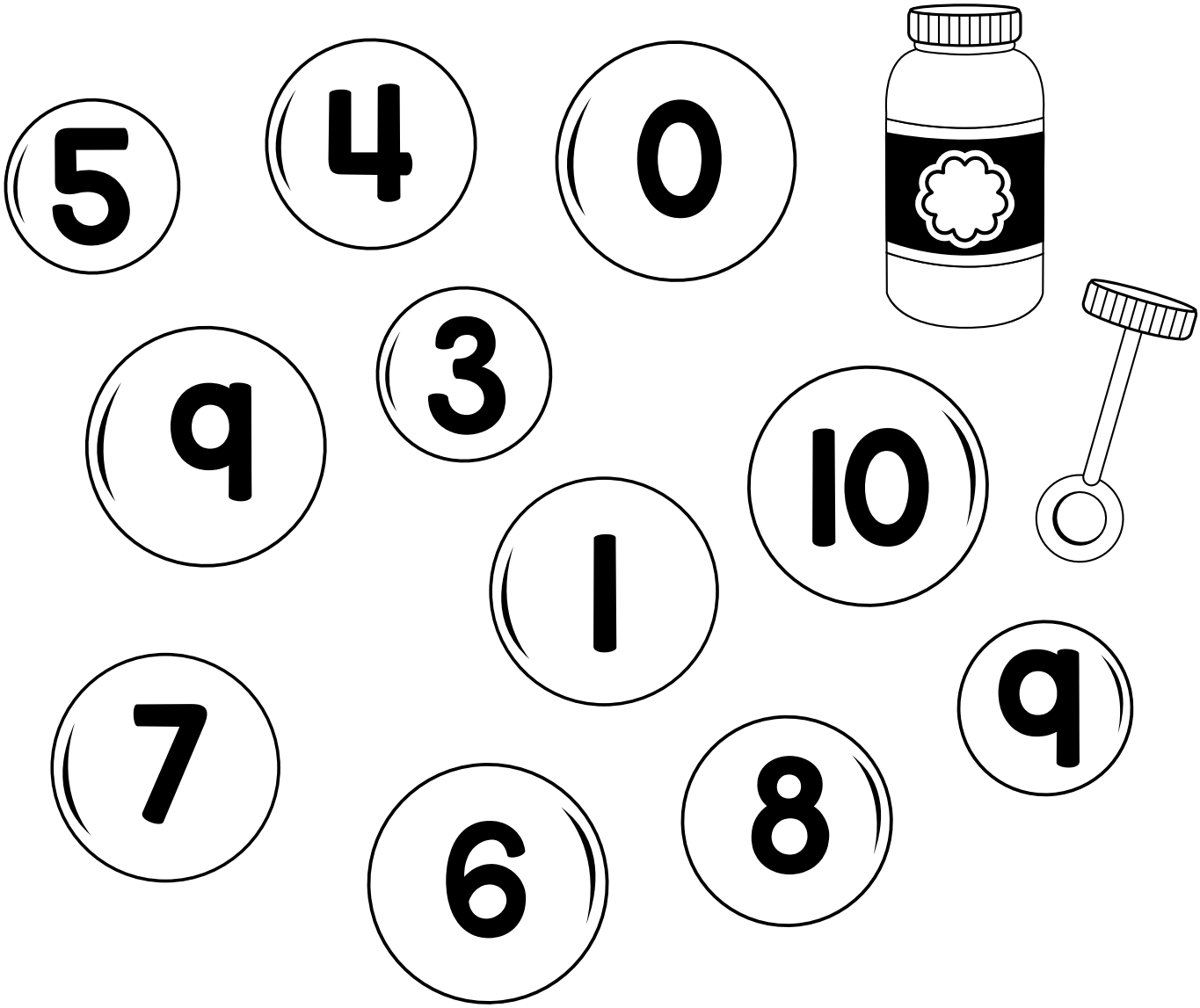
Bubble addition

Game 0-10

You will need 5 red counters, 5 yellow counters, 2 dice and a partner.

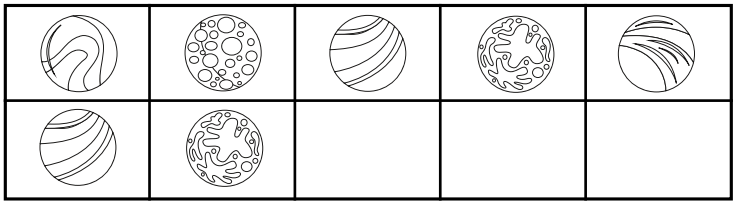
HOW TO PLAY

1. On your dice, cover each number 6 with a sticker with a 0 on it.
2. Take it in turns. Roll the dice and add both numbers.
3. Put a counter over the bubble that matches your answer.
4. The winner is the first person to use all 5 of their counters.

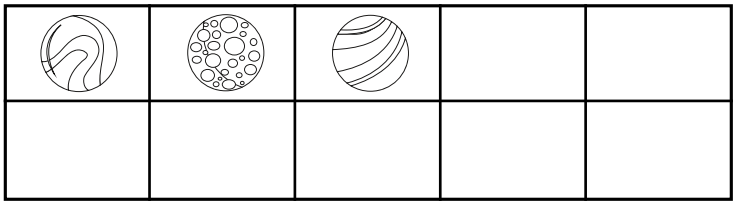


Ten frame addition

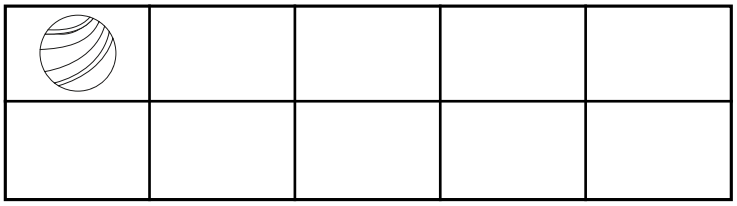
1 Draw more marbles to make 10.



7 and ☐ more.

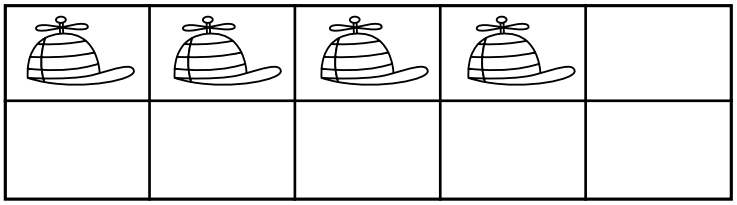


3 and ☐ more.

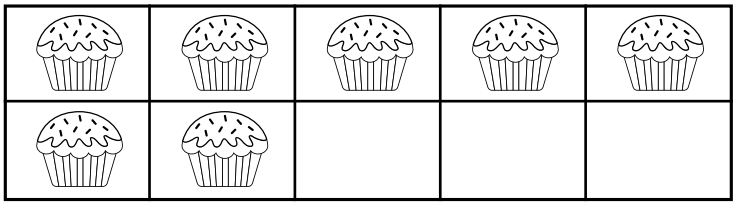


1 and ☐ more.

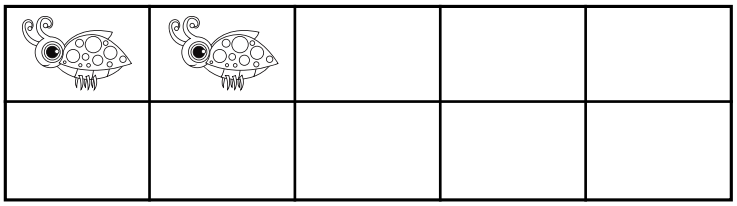
2 How many more to make 10?



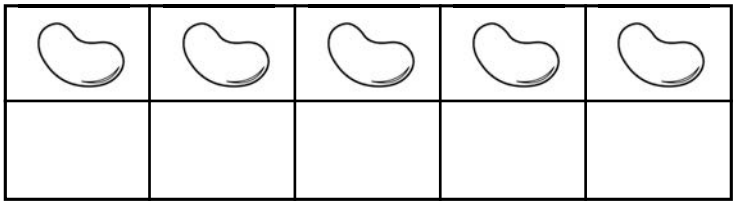
☐ more



☐ more



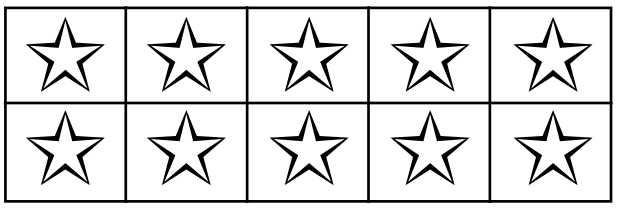
☐ more



☐ more

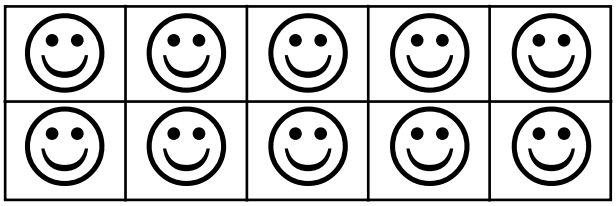
3

Colour 4



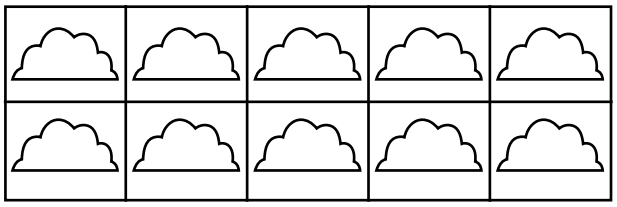
4 + ☐ = 10

Colour 6



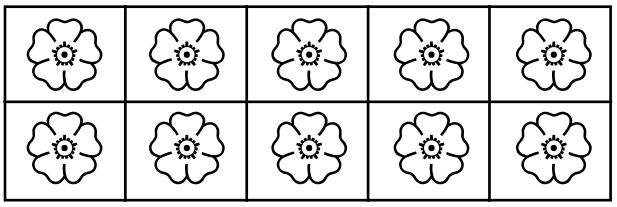
6 + ☐ = ☐

Colour 8



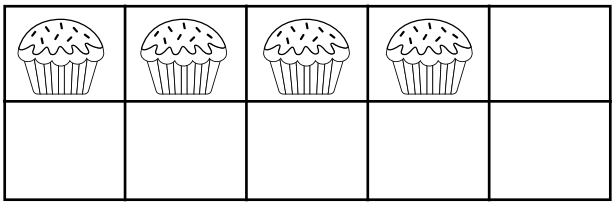
8 + ☐ = ☐

Colour 10

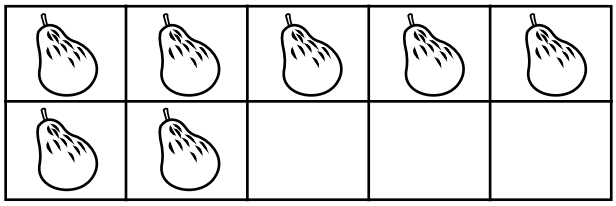


10 + ☐ = ☐

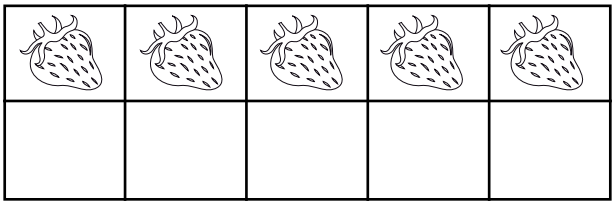
4 Fill the ten frame. Complete the sum.



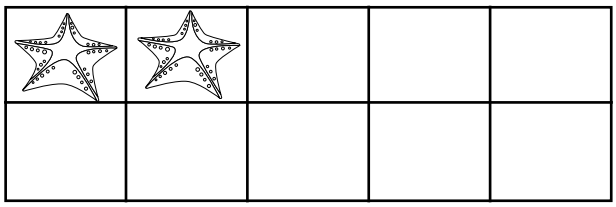
4 + ☐ = 10



7 + ☐ = 10



5 + ☐ = 10

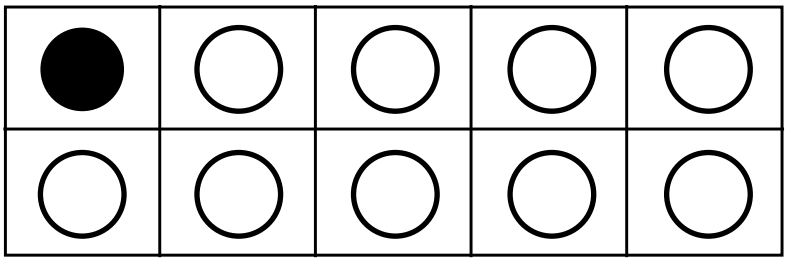


2 + ☐ = 10

Ways to make 10

Investigate

1 Complete.



10 = ☐ + ☐

2 Find more ways to make 10. Use 2 colours. Write the sums.

10 = ☐ + ☐

10 = ☐ + ☐

10 = ☐ + ☐

10 = ☐ + ☐

10 = ☐ + ☐

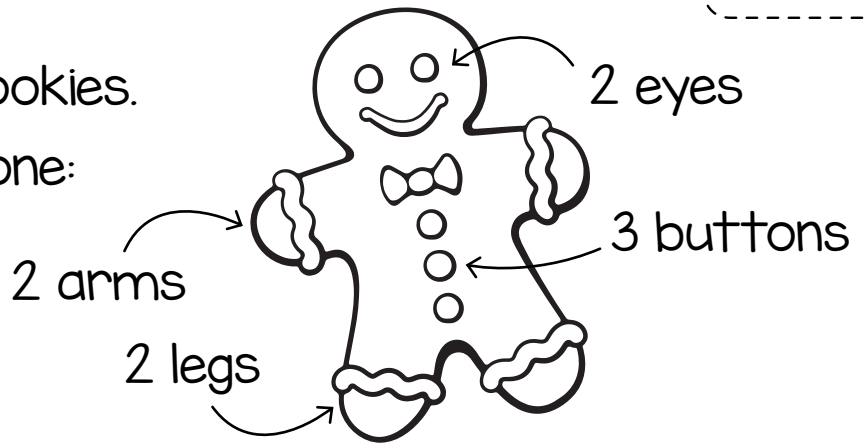
10 = ☐ + ☐

Cookies

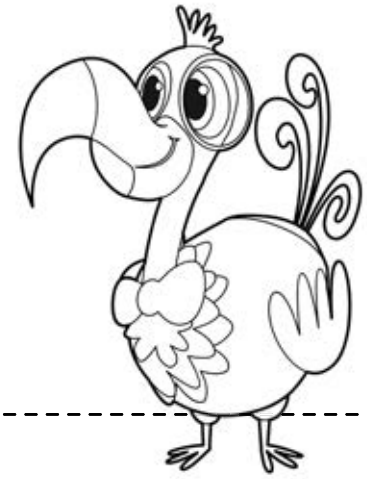
Problem solving

Doc bakes 2 cookies.

He gives each one:



1 Draw the cookies.



2 Complete the number sentences.

How many cookies? ☐ + ☐ = ☐

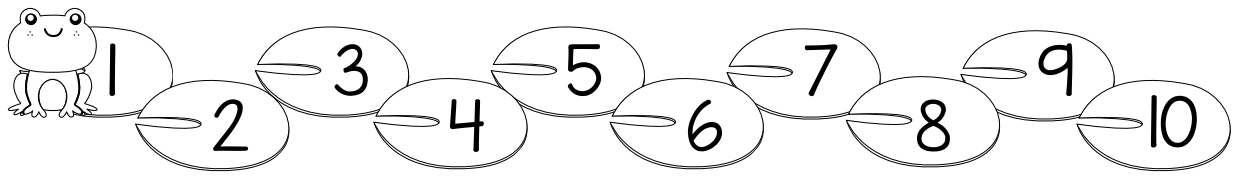
How many buttons? ☐ + ☐ = ☐

How many eyes? ☐ + ☐ = ☐

How many arms and legs? ☐ + ☐ = ☐

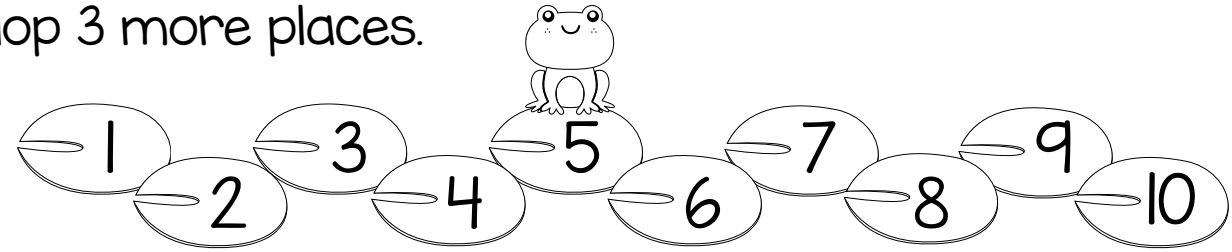
Number line addition

1 Hop 4 more places.



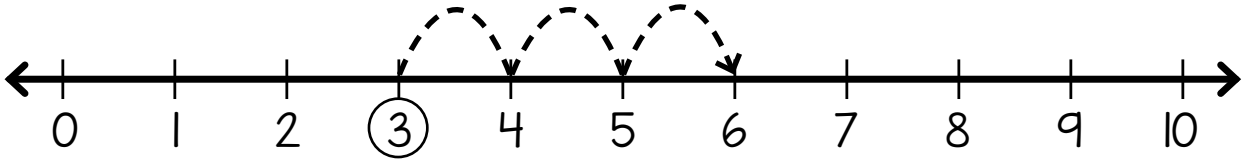
$1 + 4 = \square$

2 Hop 3 more places.

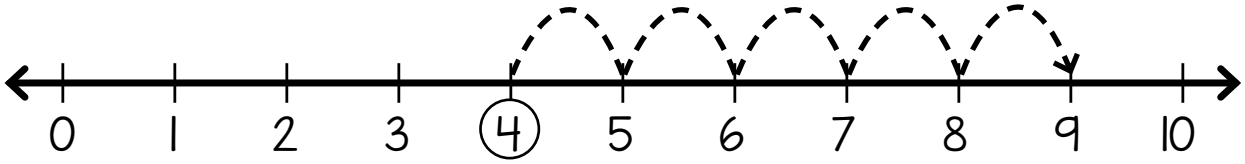


$5 + 3 = \square$

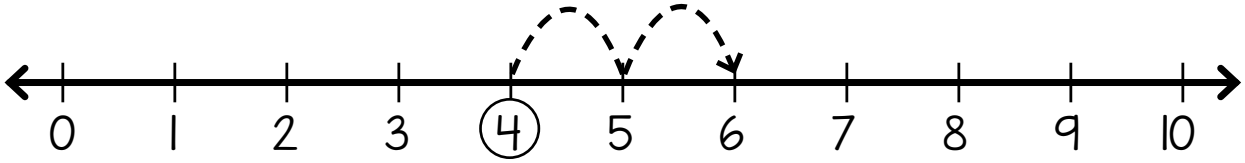
3 Trace the hops. Answer the sums.



$3 + 3 = \square$



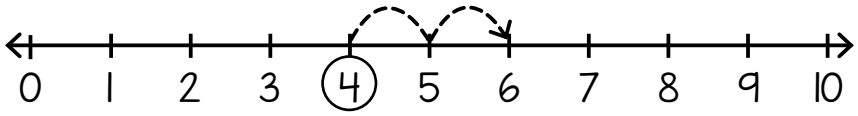
$4 + 5 = \square$



$4 + 2 = \square$

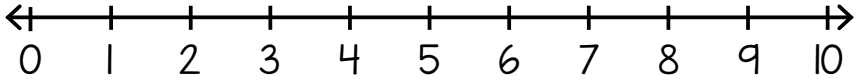
4 How much has Ruby spent? Use the number line to find the total.


$4 $2

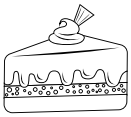


= $ _____

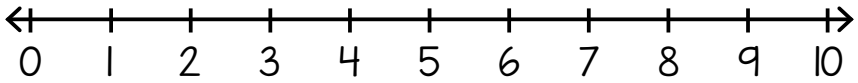

$6 $3



= $ _____



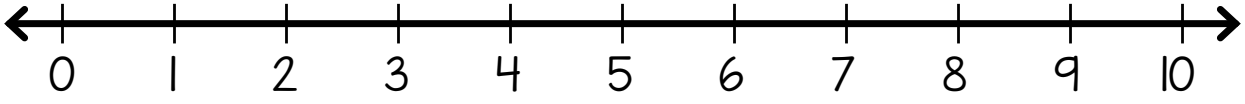

$5 $4



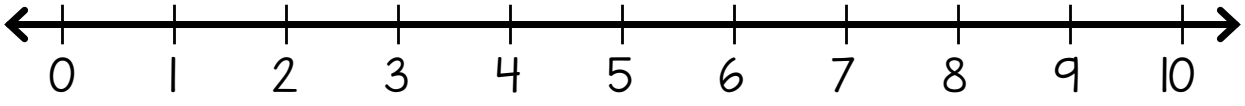
= $ _____

5 Show the sum on the number line.

2 + 3 = ☐



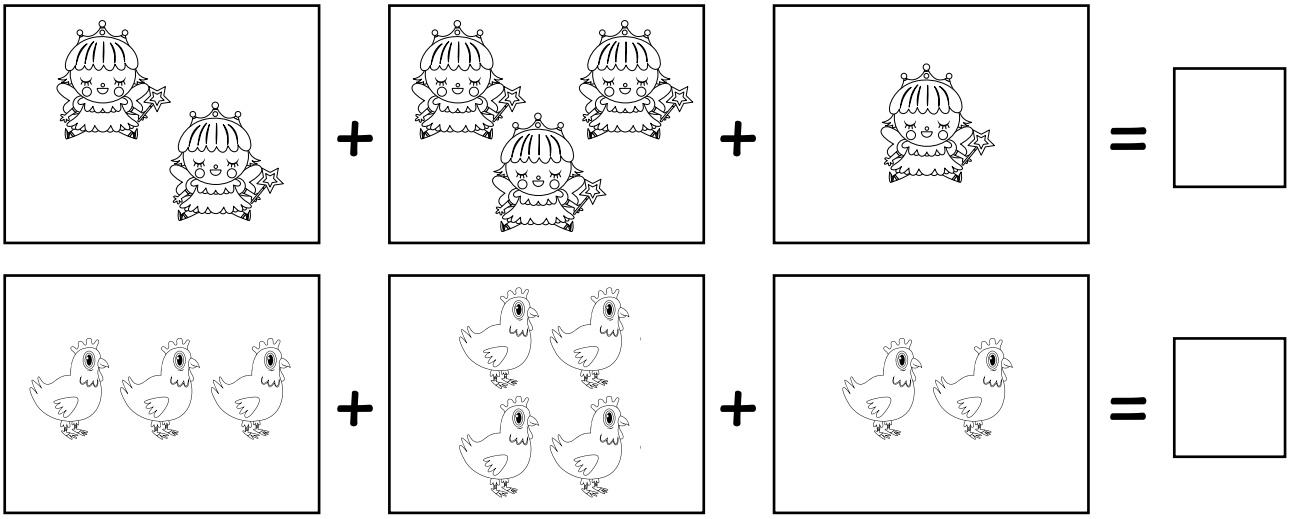
4 + 4 = ☐



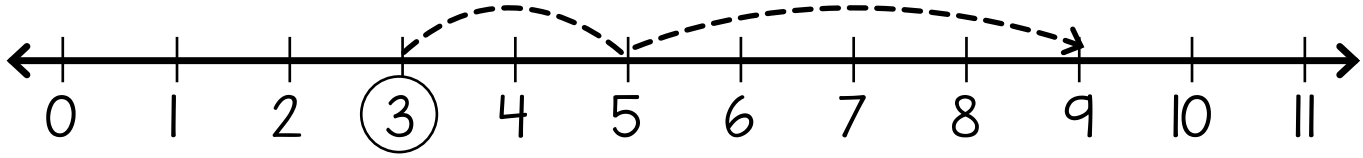
3 + 5 = ☐

Adding 3 groups

1 Count and add.

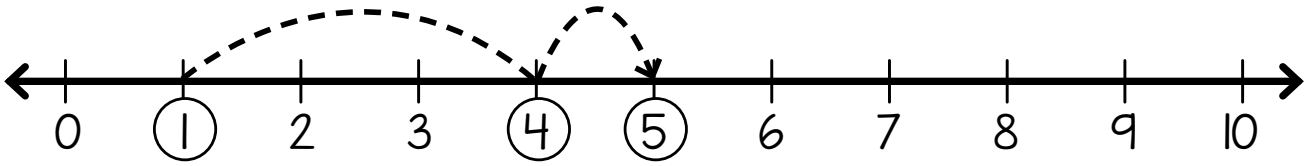


2 Add using the number line.

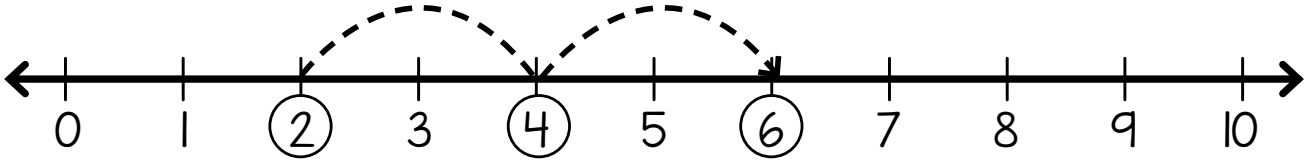


3 + 2 + 4 = ____

3 Fill in the number sentences.

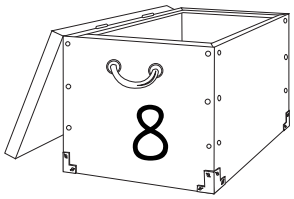


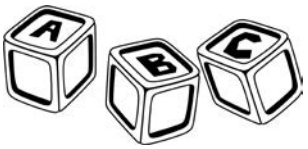
□ + □ + □ = □



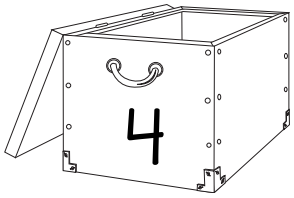
□ + □ + □ = □

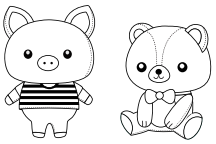
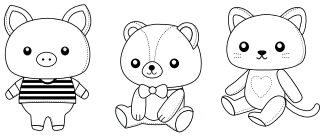
4 Count on and add.





□ + □ + □ = □



□ + □ + □ = □

5 Colour and add.

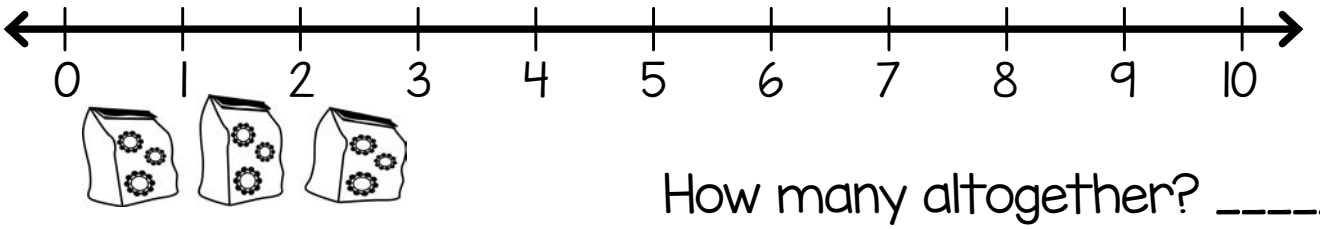
1	2	3	4	5	6	7	8	9	10

4 + 2 + 1 = ____

1	2	3	4	5	6	7	8	9	10

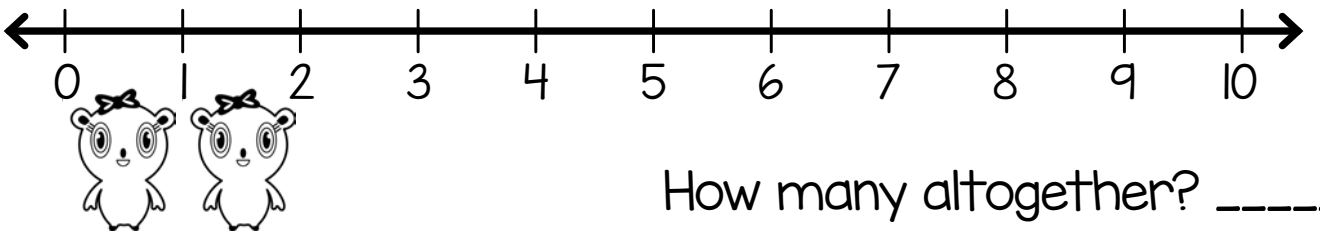
5 + 1 + 2 = ____

6 Add 2 more. Then add 3 more.



How many altogether? _____

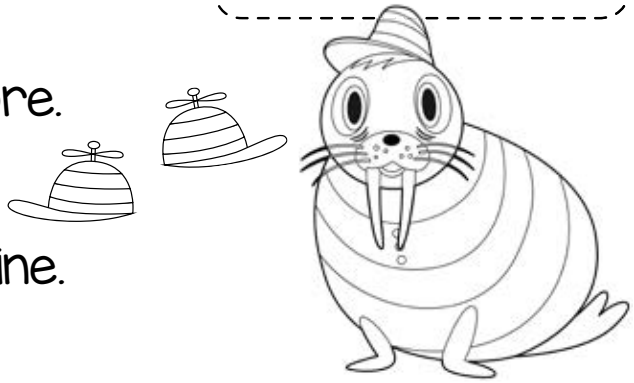
7 Add 1 more.



How many altogether? _____

Word problems 3

Word problems +



1 Waldo has 3 caps. He buys 5 more. How many caps altogether?

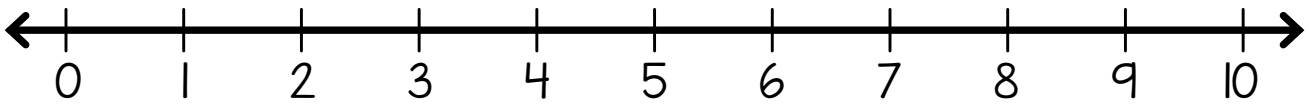
Show the sum on the number line.

Write the number sentence.

☐ + ☐ = ☐ caps

2 Ruby fills 2 buckets. She fills 3 more, and then 4 more buckets. How many buckets altogether?

Show the sum on the number line.



Write the number sentence.

☐ + ☐ = ☐ buckets

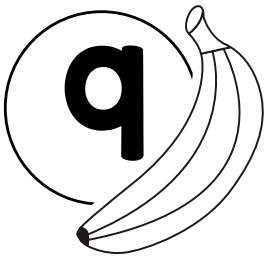
Go bananas!

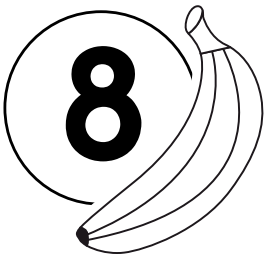
Game

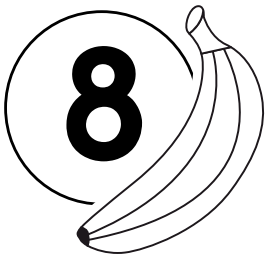
You will need:
2 coloured counters (a colour for each player),
1 die and a partner.

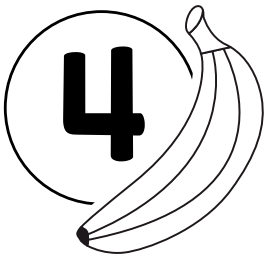
HOW TO PLAY

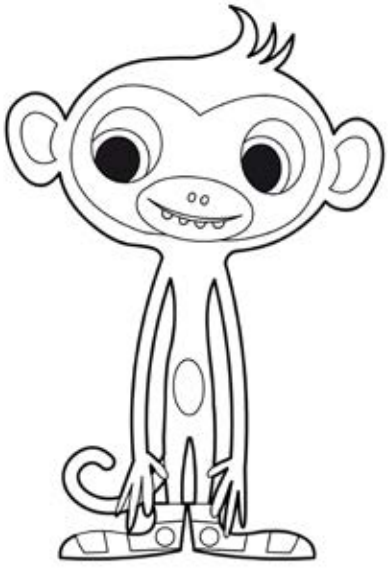
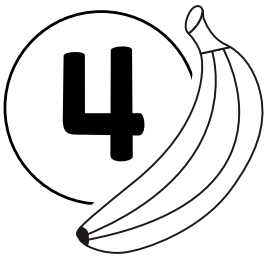
1. Take it in turns. Roll the die.
2. Find the banana number that will make 10.
3. Cover it with a counter.
4. Keep playing until all the bananas are covered. The winner is the player with the most bananas.

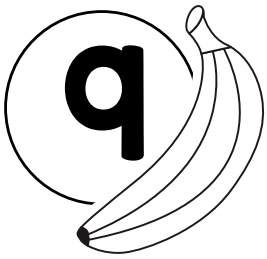






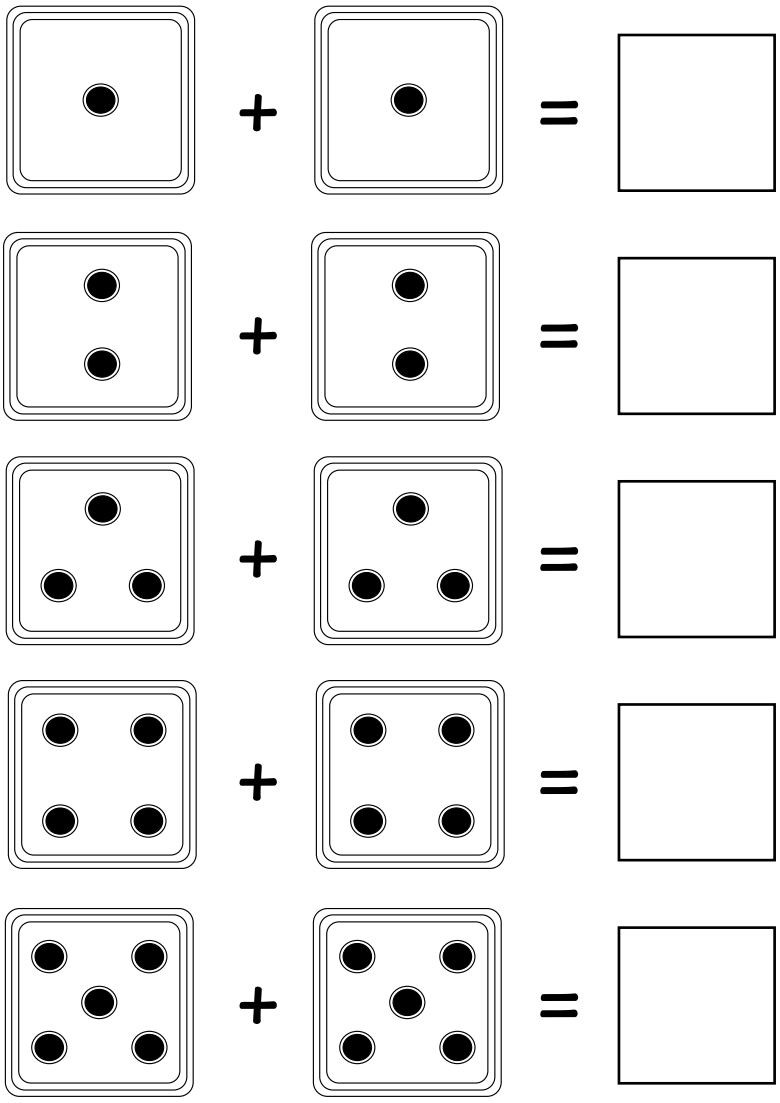


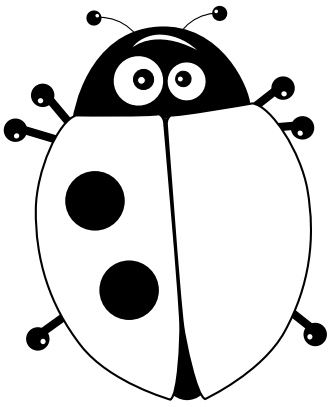


Doubles to 10

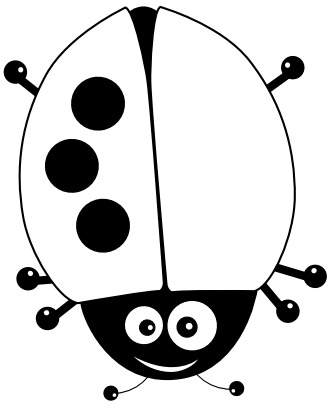
1 Add Dizzy's double dice.



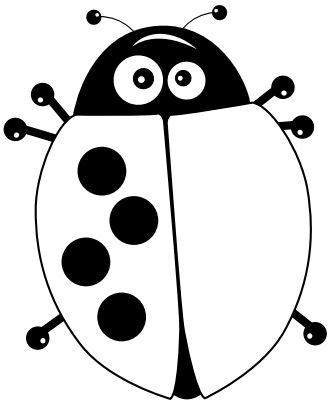
2 Draw matching spots. Write the answers.



Double 2 is ☐

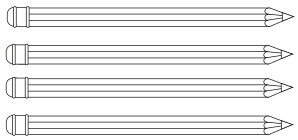


Double 3 is ☐

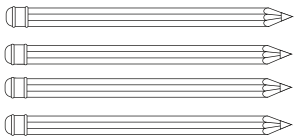


Double 4 is ☐

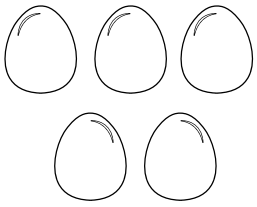
3 Write the missing numbers.



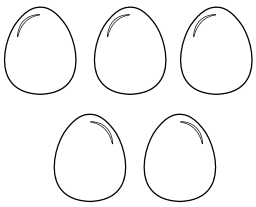
+



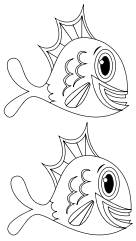
4 + ☐ = 8



+

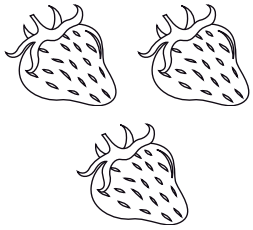


☐ + 5 = ☐

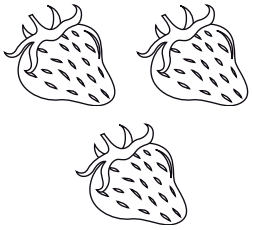


+

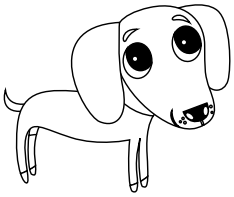
☐ + ☐ = ☐



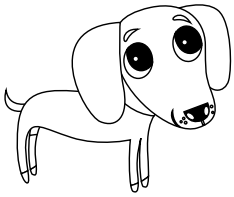
+



☐ + ☐ = ☐

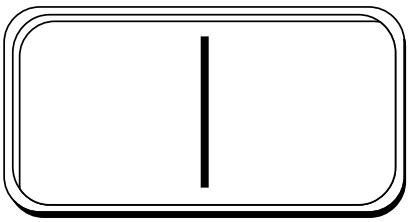


+

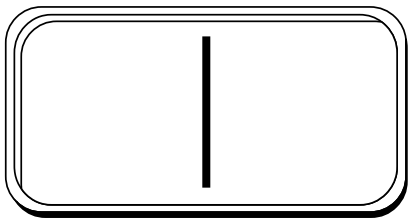


☐ + ☐ = ☐

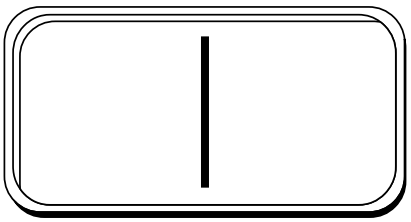
4 Draw the dominoes.



Double 4

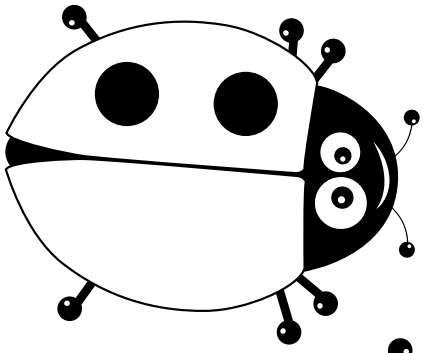


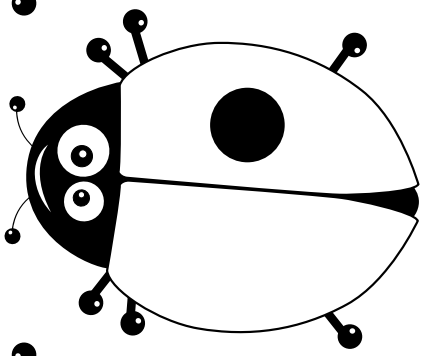
Double 5

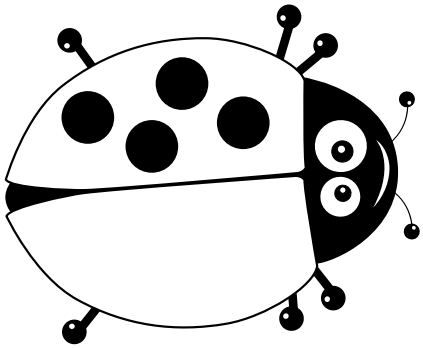


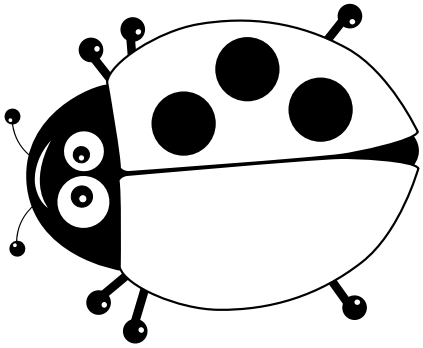
Double 6

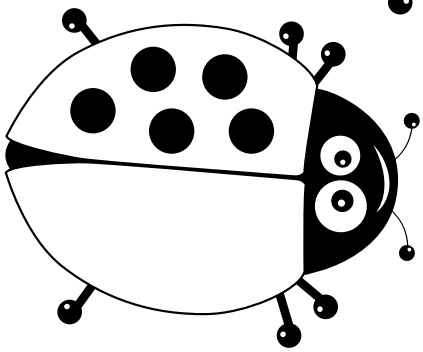
5 Complete each ladybug to make doubles. Join to a leaf. Write the totals.











5 + 5 = ___

3 + 3 = ___

2 + 2 = ___

1 + 1 = ___

4 + 4 = ___

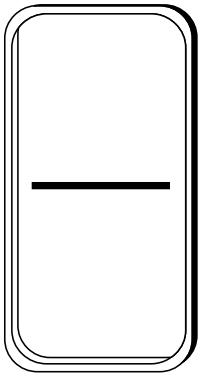
Doubles match-up

Game

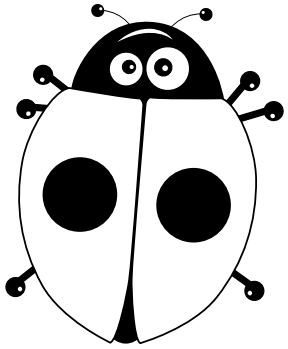
You will need scissors and a partner ☺.

HOW TO PLAY

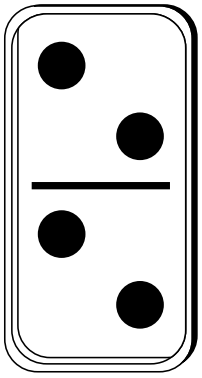
1. Cut out the pictures. Shuffle.
2. Lay them face-down in a 4 x 4 grid.
3. Take turns. Flip over 2 cards and see if they match. If they do, keep them.
4. The winner has the most cards at the end of the game.



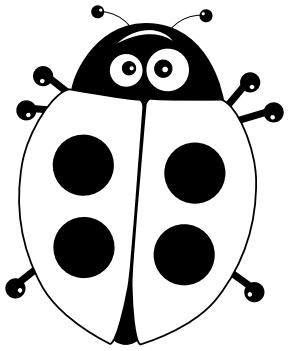
0



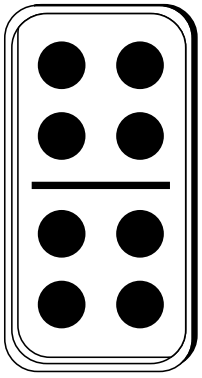
2



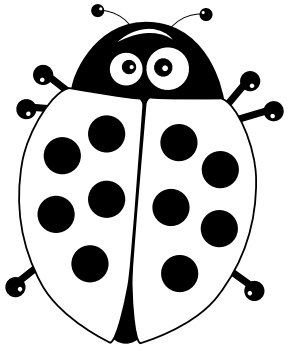
4



6



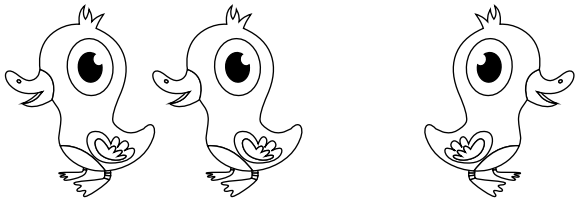
8



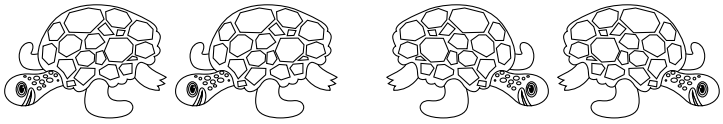
10

Subtraction stories

1



3 ducks. 1 walks away. How many left? ☐



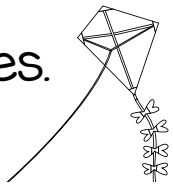
4 turtles. 2 swim away. How many left? ☐

5 crabs. 4 run away. How many left? ☐

2 Draw pictures for each story.

5 fish.  3 swim away.

How many left? ☐

3 kites.  2 fly away.

How many left? ☐

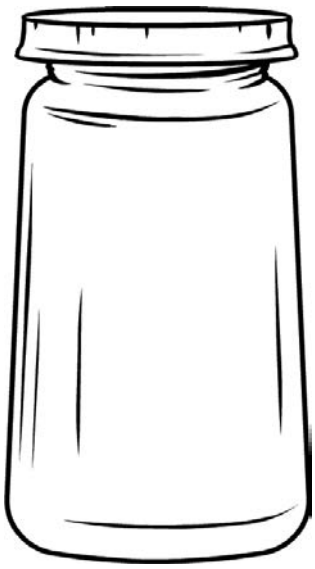
Take away cubes

Practical activity

Use cubes to act out each story. Write the answers.

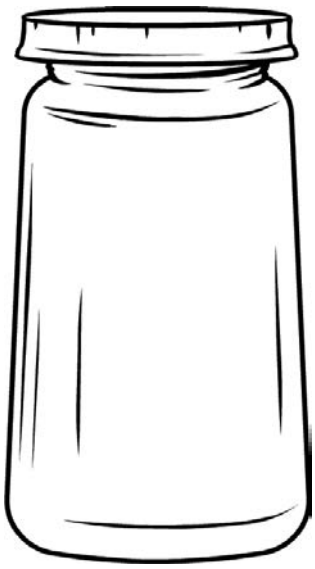
1 4 in a jar.
Take away 1.

How many left? ☐



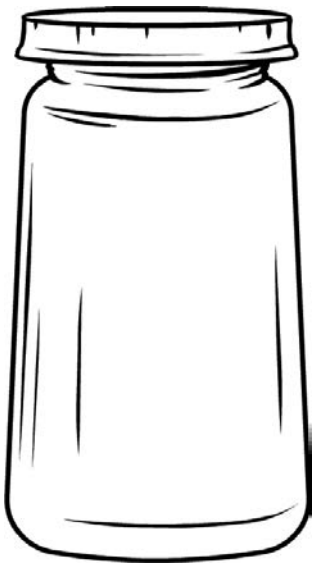
2 3 in a jar.
Take away 2.

How many left? ☐



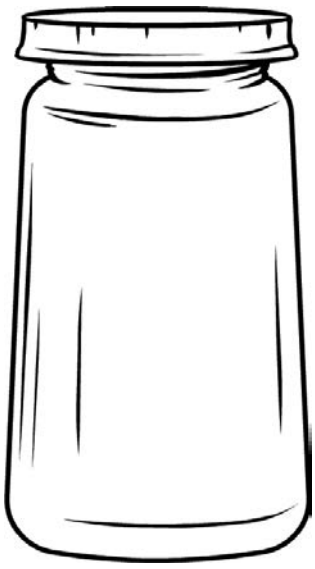
3 5 in a jar.
Take away 1.

How many left? ☐



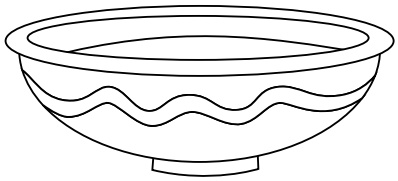
4 4 in a jar.
Take away 3.

How many left? ☐



How many left?

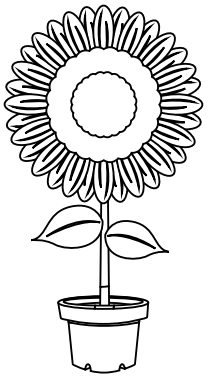
1 Draw 5 apples.



Take away 3.

How many left? ☐

Draw 6 bees.

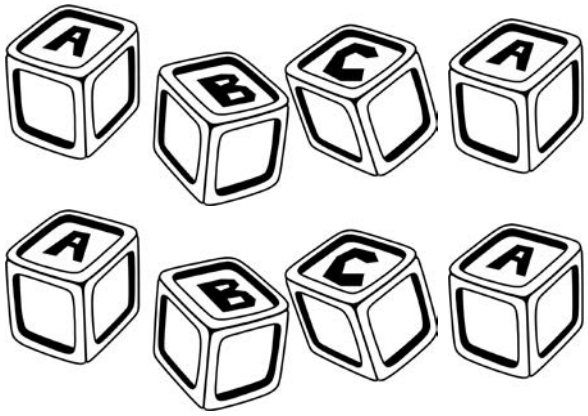


Take away 2.

How many left? ☐

2

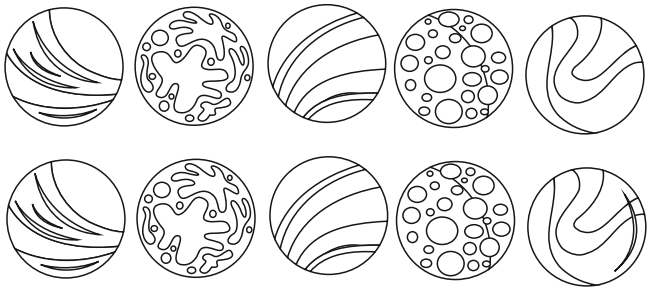
How many? ☐



Take away 3.

How many left? ☐

How many? ☐

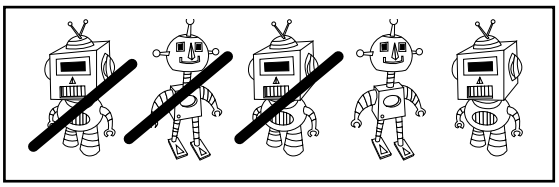
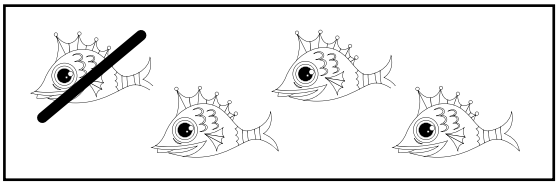
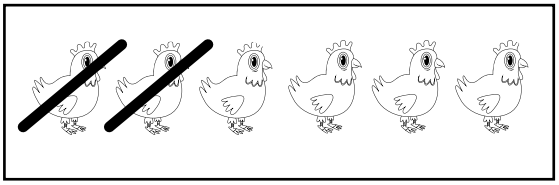
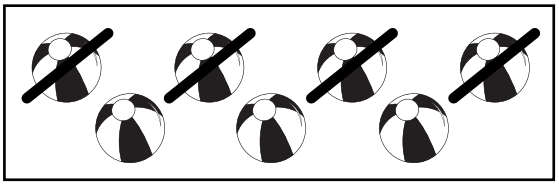


Take away 3.

How many left? ☐

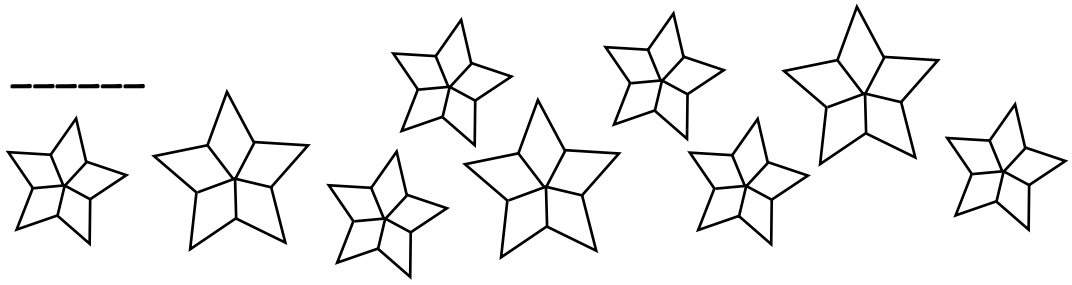
Cross out to take away

1 Draw lines to match.

4 take away 1	
7 take away 4	
5 take away 3	
6 take away 2	

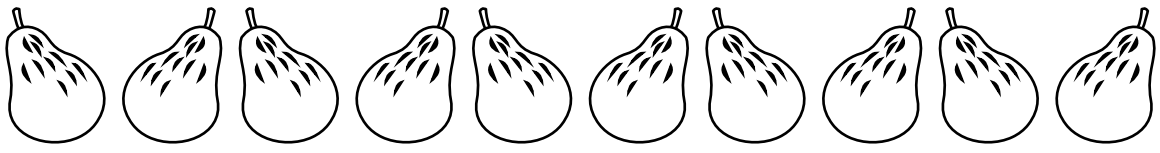
2 Find the answers.

How many? _____



Cross out 6 stars. How many left? _____

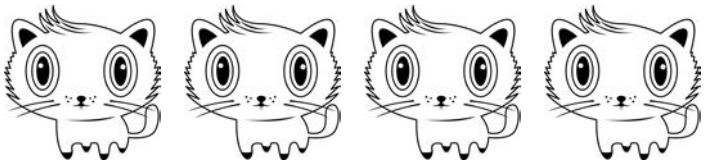
How many? _____



Cross out 4 pears. How many left? _____

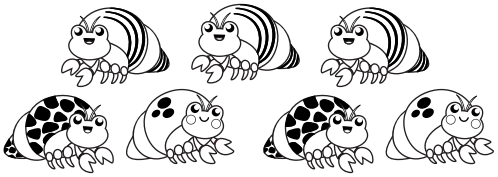
3 Fill in the numbers.

Cross out one.



☐ take away 1 is ☐

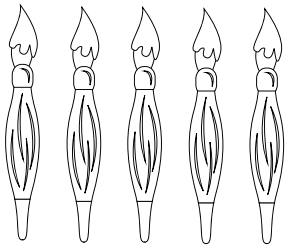
Cross out three.



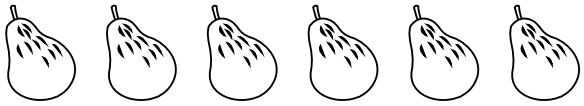
☐ take away 3 is ☐

4 Cross out 4.

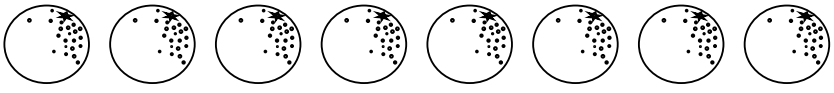
☐ − 4 = ☐



5 Cross out to take away. Write the answers.

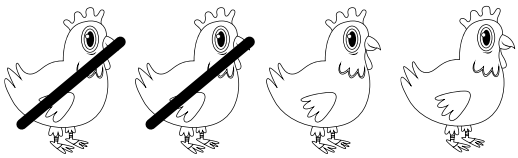


6 − 3 = ☐

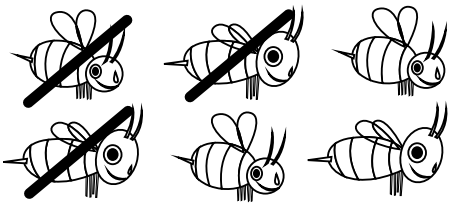


8 − 2 = ☐

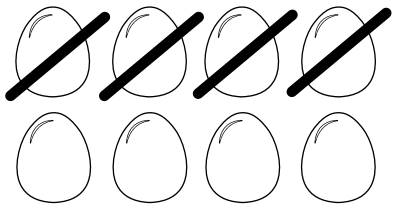
6 Fill in the numbers.



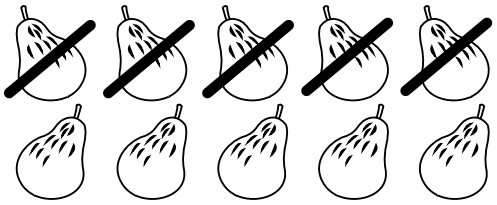
$4 - 2 = \square$



$6 - 3 = \square$



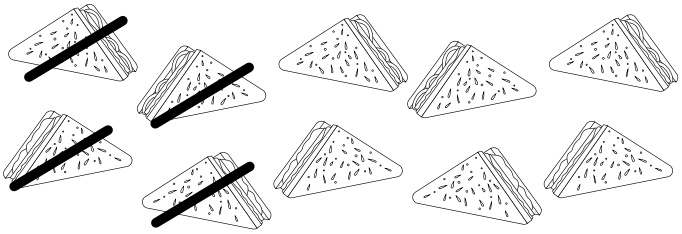
$8 - 4 = \square$



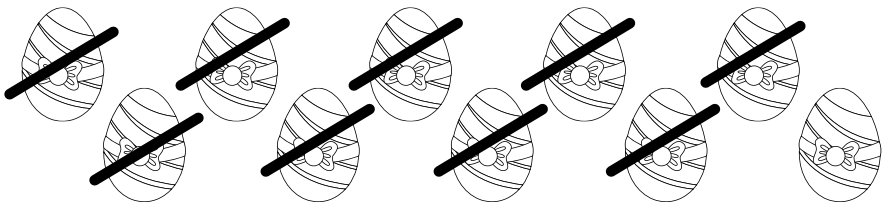
$10 - 5 = \square$

7 Find the answers.

$10 - 7 = \square$



$10 - 4 = \square$



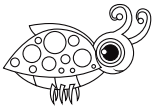
$10 - 9 = \square$

Word problems 4

1 Ruby has 7 apples. She eats 3.
Draw.

How many apples are left? ☐ 

2 Dizzy has 10 bugs. 6 run away.
Draw.

How many bugs are left? ☐ 

Complete the number sentence.

10 − ☐ = ☐

4 fish

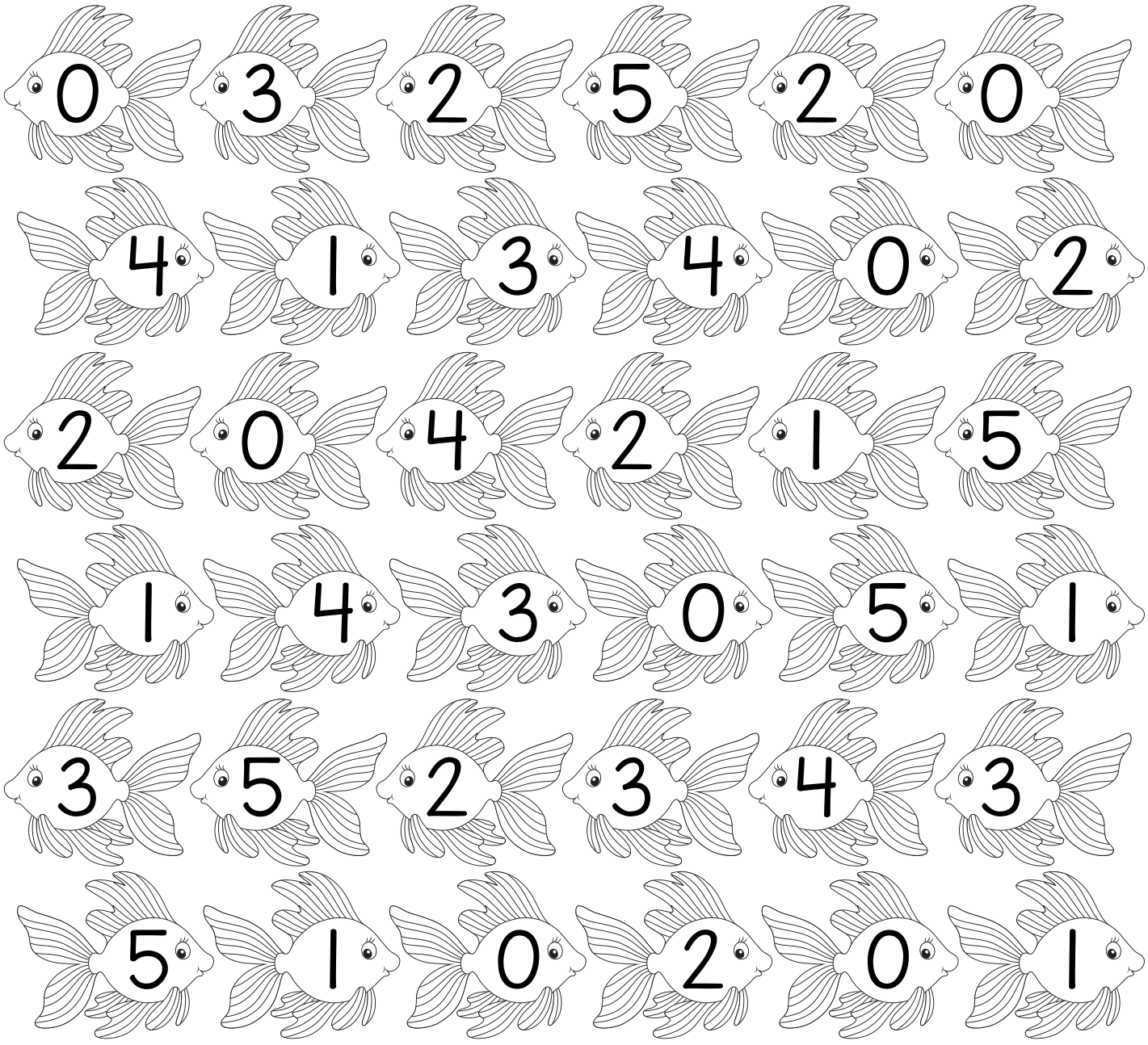
Game

You will need:

2 sets of coloured counters (one set for each player),
2 dice and a partner.

HOW TO PLAY

1. Take it in turns. Roll the dice and subtract the smaller number from the larger one.
2. Cover the fish that matches your answer.
3. The first person to cover 4 in a row is the winner.



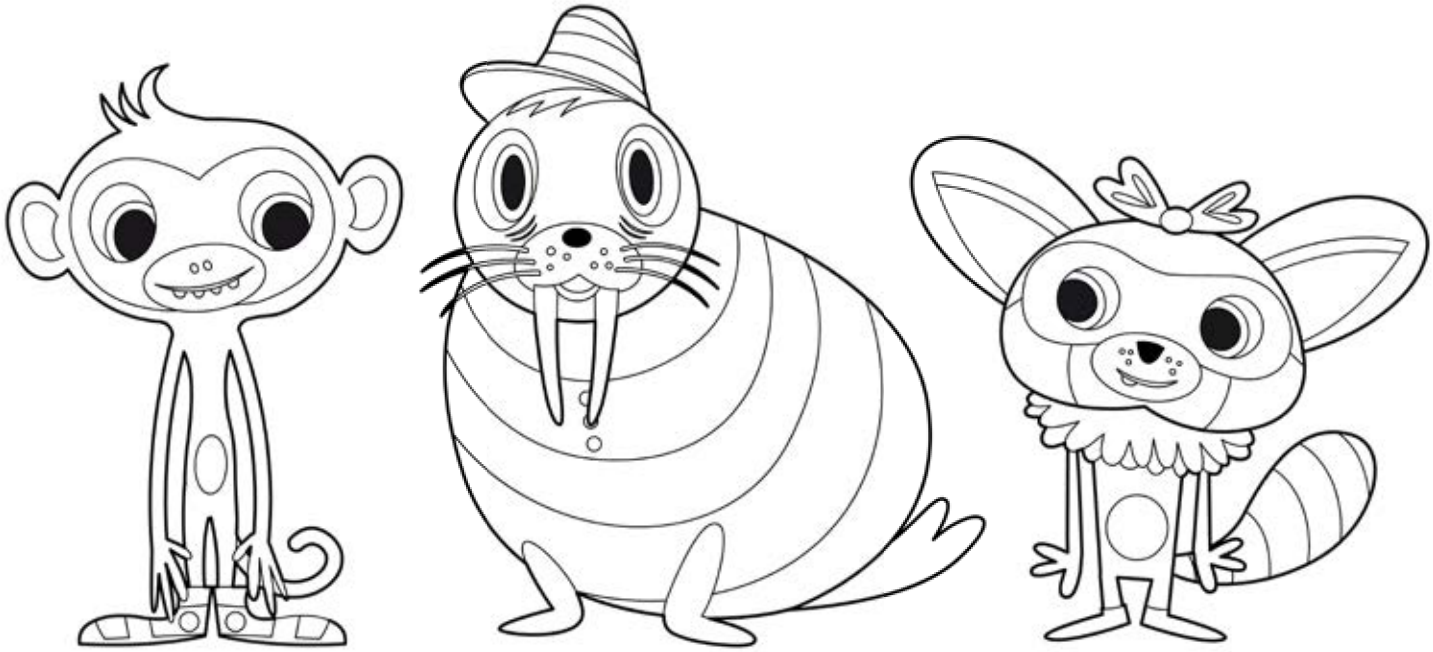
Cupcakes

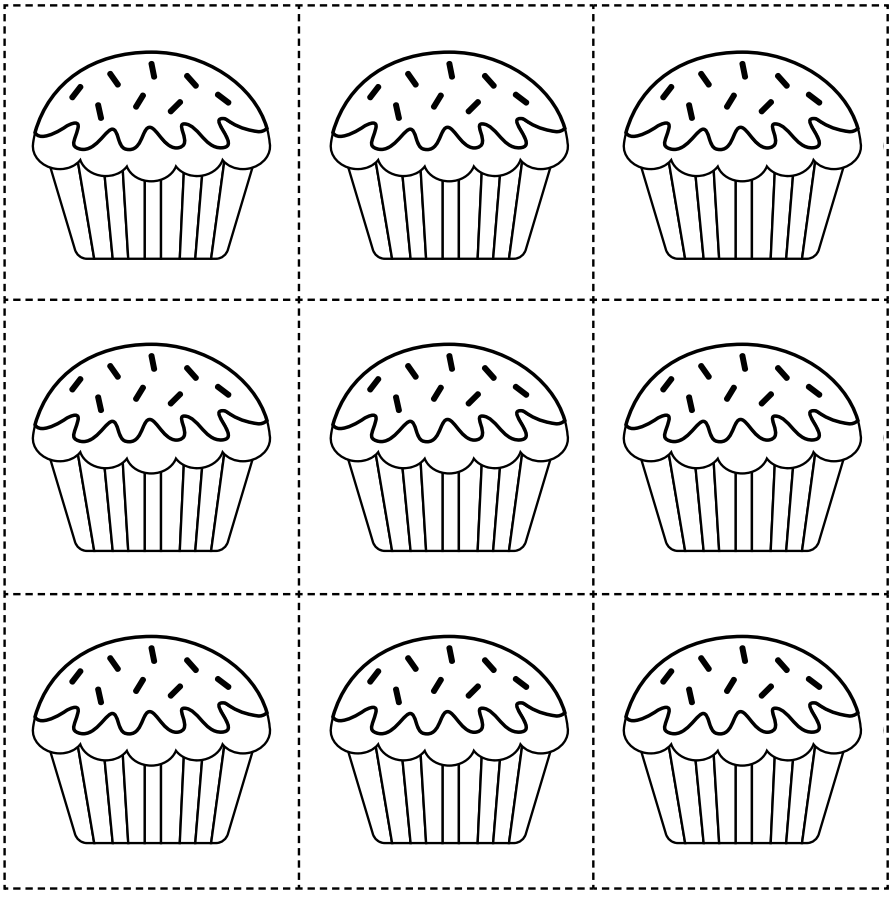
Practical activity

1 Cut out the 9 cupcakes.

2 Share them equally between Mango, Waldo and Ruby.

3 How many  each? _____

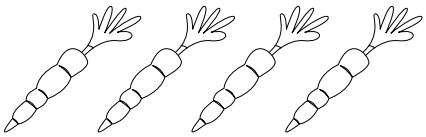


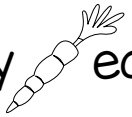


Equal shares

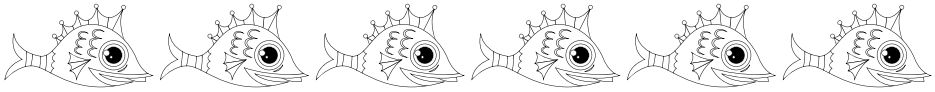
1 Share equally.

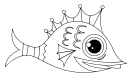
Draw.



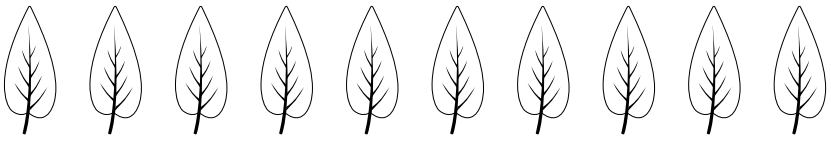
How many  each?

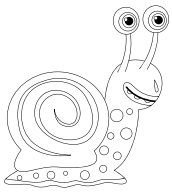
Draw.

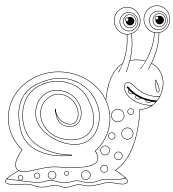


How many  each?

Draw.





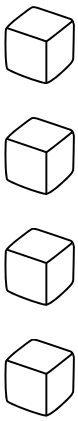


How many  each?

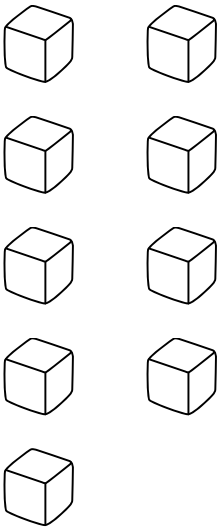
Blocks

Practical activity

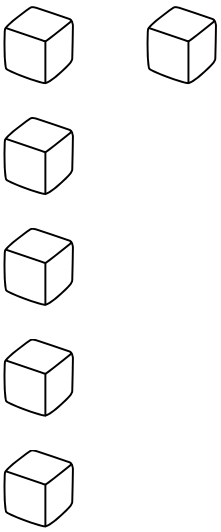
1 Use blocks. Share equally. Draw and write the answer.



How many each?



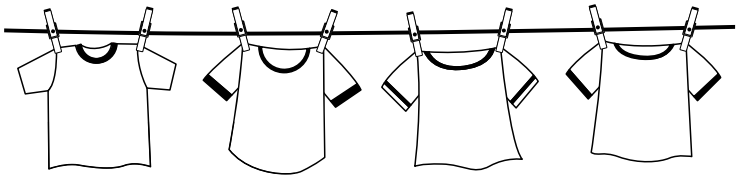
How many each?



How many each?

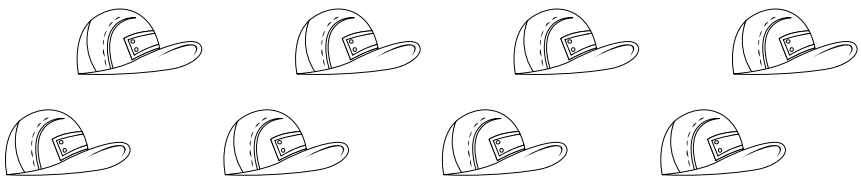
Clothes

1 Draw lines to share equally.



How many each? ☐

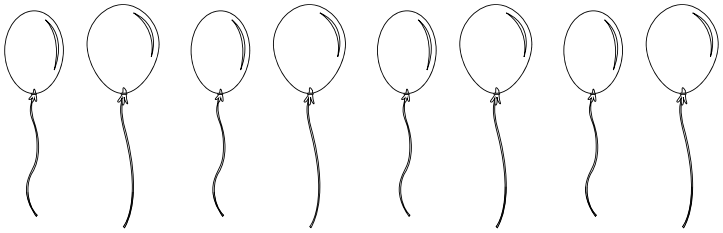
How many each? ☐



How many each? ☐

Party time!

1 Share the balloons equally.

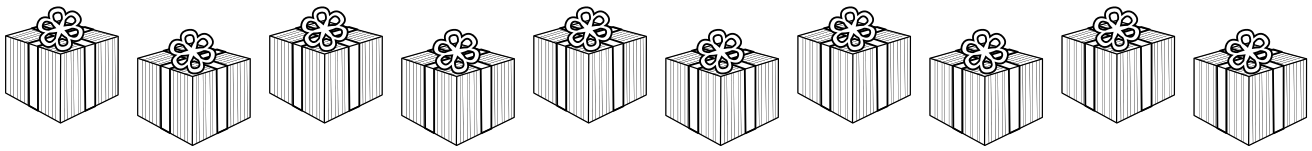


How many each?

2 Share the ice creams equally.

How many each?

3 Share the gifts equally.

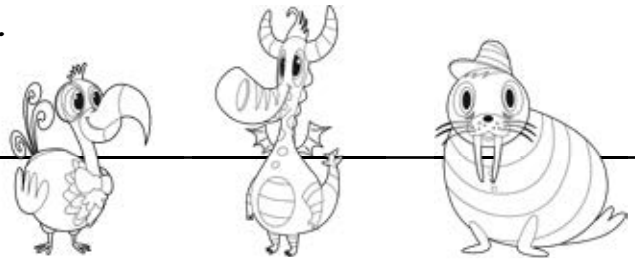


How many each?

Word problems 5

1 Ruby has 9 books. She shares them equally between Doc, Dizzy and Waldo.

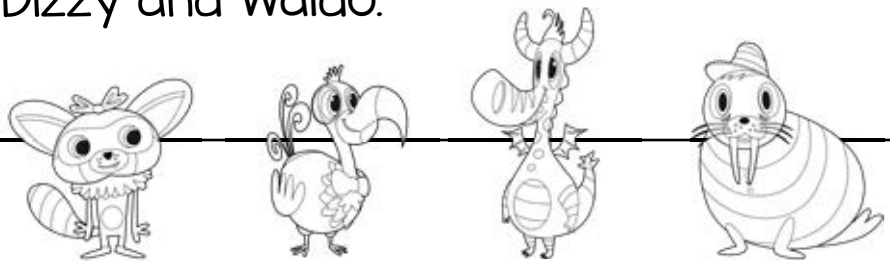
Draw.

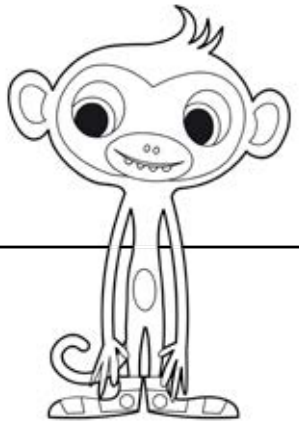


How many each? 

2 Mango has 12 toy cars. She shares them equally between Ruby, Doc, Dizzy and Waldo.

Draw.

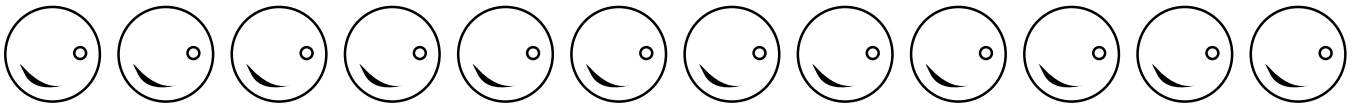




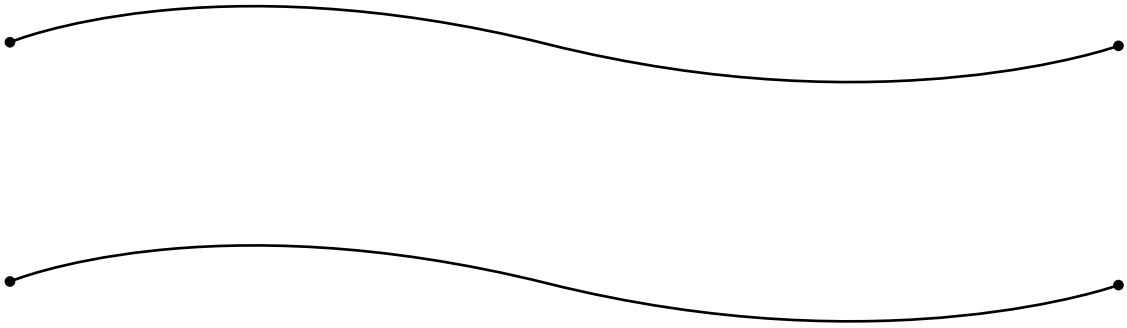
How many each? 

Problem solving

1 How can 12 beads be put on 2 strings?

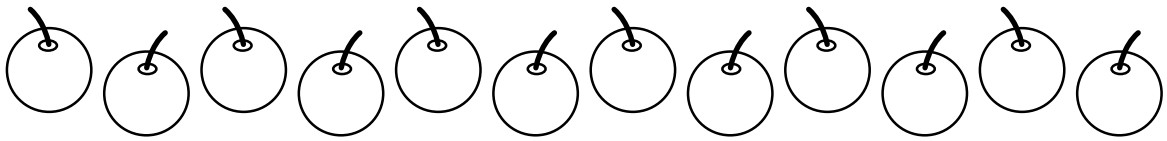


Draw.

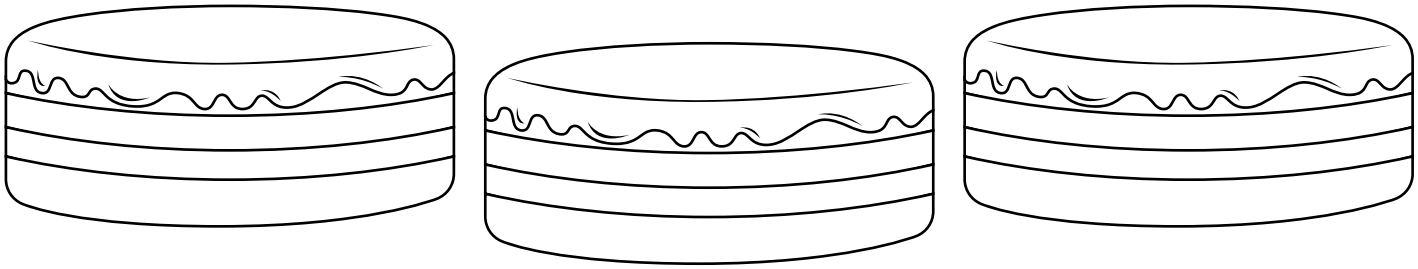


How many each? ☐

2 How can 12 cherries be put on 3 cakes?



Draw.



How many each? ☐

Fair share

Game

You will need:

12 counters ◯, 2 dice, cubes and a partner ☺.

HOW TO PLAY

1. Take turns. Roll the dice and add the numbers.
2. Count out the matching number of counters.
3. Share the counters between Ruby and Mango.
4. Pick up 2 cubes if you can share equally. Pick up 1 cube if you can't.
5. The winner is the first person to get 10 cubes.