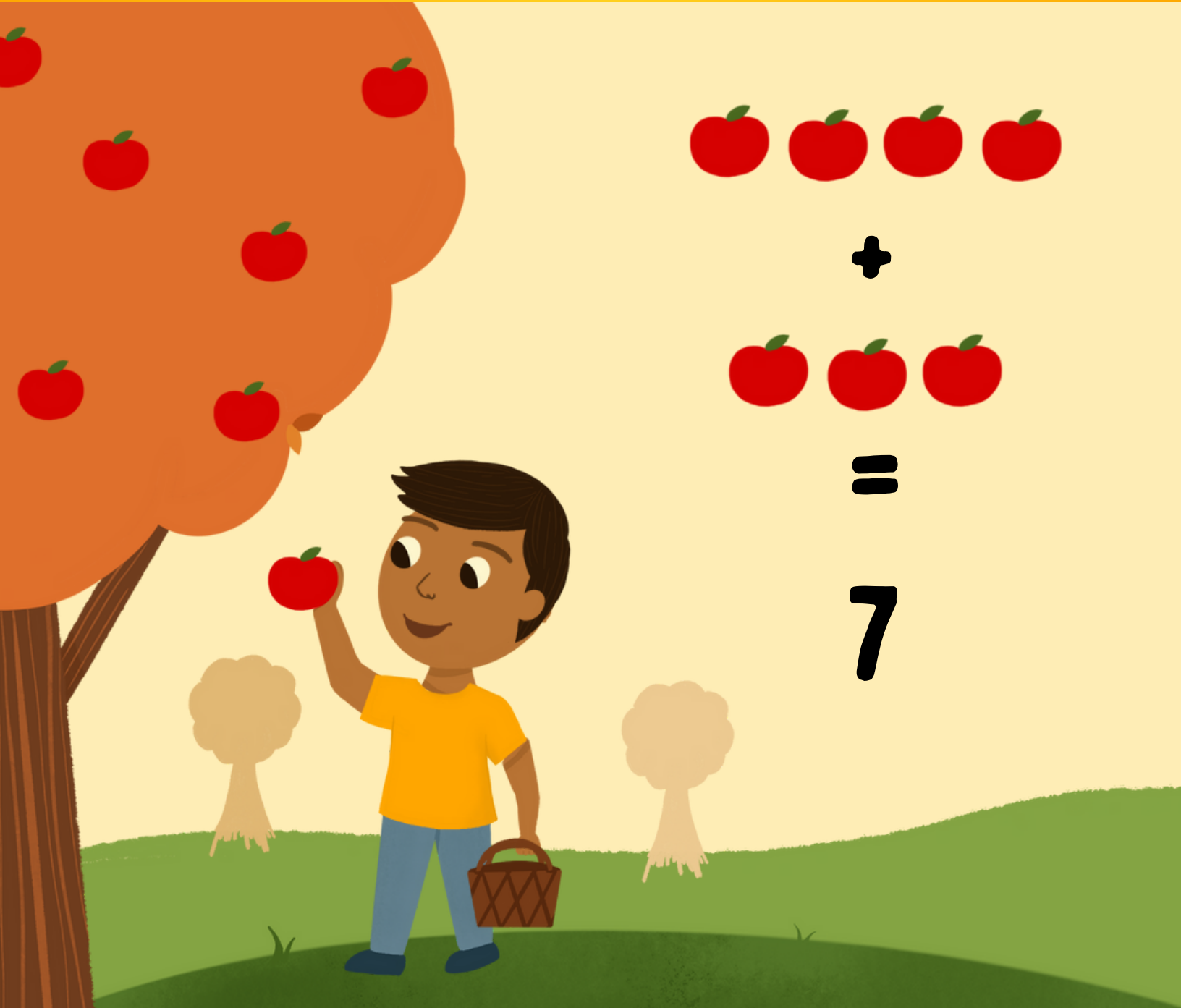


Addition & Subtraction

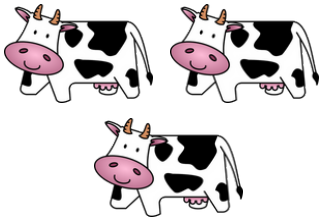
ABRIDGED VERSION



KINDERGARTEN TO GRADE 2 (AGES 5-8)

Animal Addition

Count and add the number of animals together.



+

=



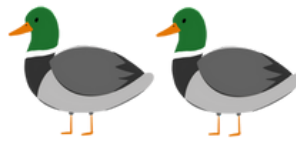
+

=



+

=

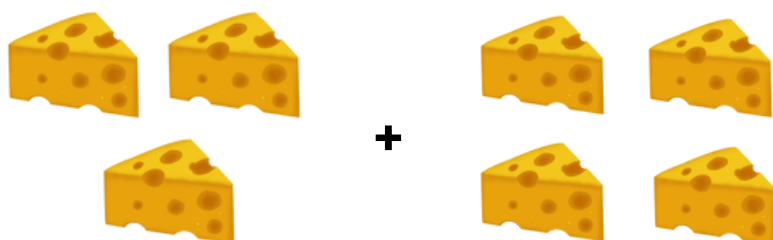


+

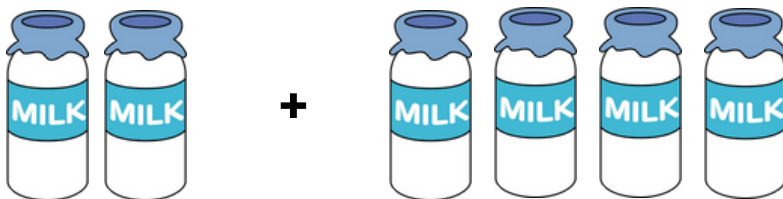
=

Dairy Addition

In each row, add the number of dairy products on the left and write the sum in the box on the right.



$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$



$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$



$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$



$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

Addition

Draw pictures to help you add the numbers.

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

Colour 5 of the following tomatoes.

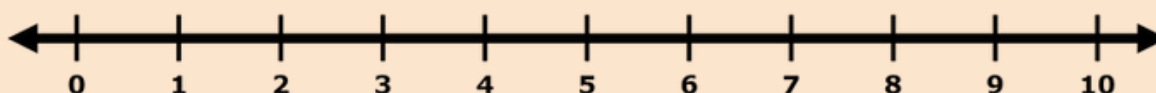


Lesson: Addition with a Number Line

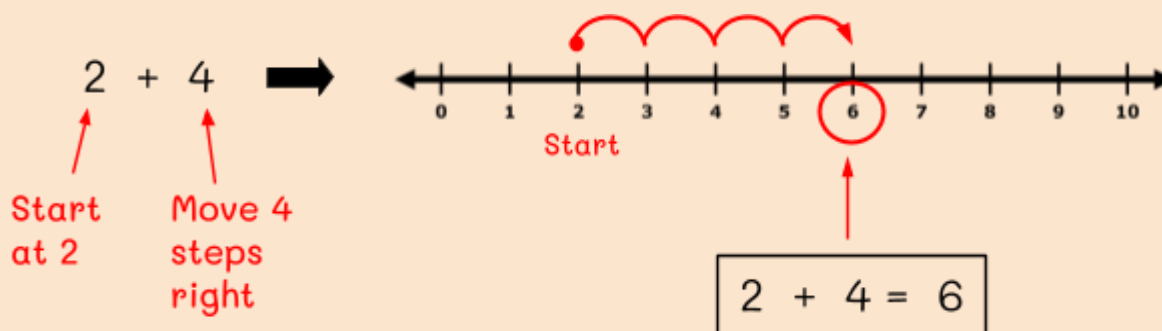
If you are tired of drawing pictures, here is another way to add numbers.

Number Line

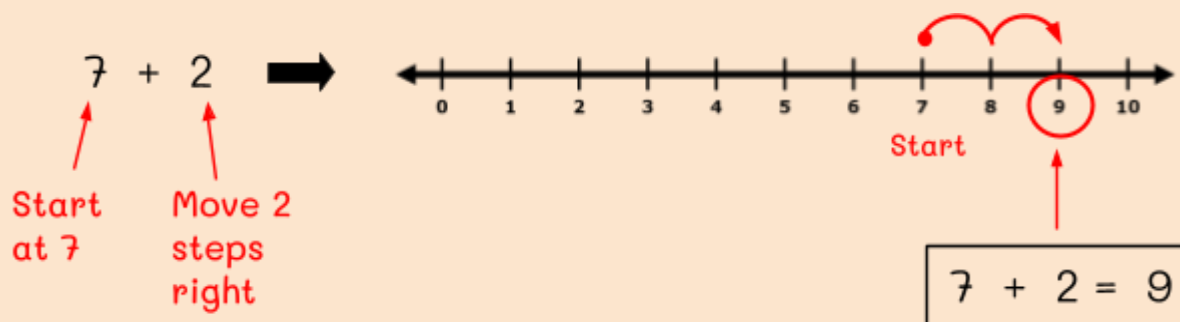
A number line is a **long** line with tick marks that stand for numbers starting at 0 (zero).



But how do we use a number line to add?



Let's try one more!



Addition Practice

Now it is your turn to practice!

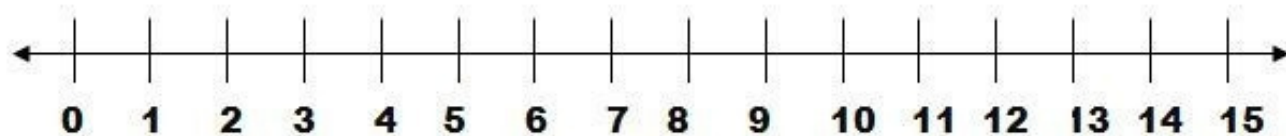
Practice your adding skills and use the number line below if you get stuck.

$$6 + 3 = \underline{\quad}$$

$$1 + 5 = \underline{\quad}$$

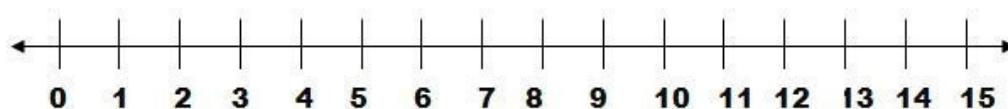
$$10 + 4 = \underline{\quad}$$

$$7 + 6 = \underline{\quad}$$



Penguin Addition

Each penguin has an addition problem that needs to be solved.
Write the answer on the egg beside them.



Lesson: Addition with Fingers

Did you know that you can also add using your fingers! Here are 3 different ways of using your fingers to add:

METHOD 1:

When adding 2 numbers that are smaller than 5.

If both numbers are smaller than 5, hold up one number in your left hand and the other number in your right hand.

Count the number of fingers you have up to get your answer.

Example:

What is $2 + 3$

1 2



3 4 5



There are 5 fingers up. So $2 + 3 = 5$

What do we do if the numbers are bigger than 5?

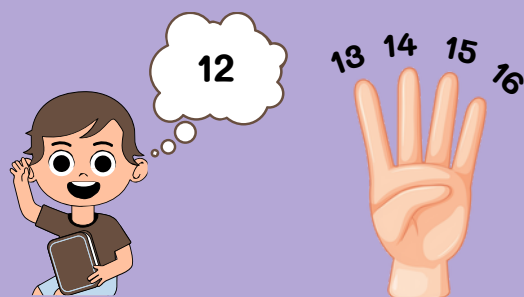
METHOD 2:

Think of the bigger number in your head.
Put up the same number of fingers as the smaller number.

Count up from the number in your head while putting down one finger at a time.

Example:

What is $12 + 4$?



We stopped counting at 16, so $12 + 4 = 16$.

METHOD 3:

Think of the first number in your head. Put up the same number of fingers as the second number.

Count up from the first number in your head while putting down one finger at a time.

Example:

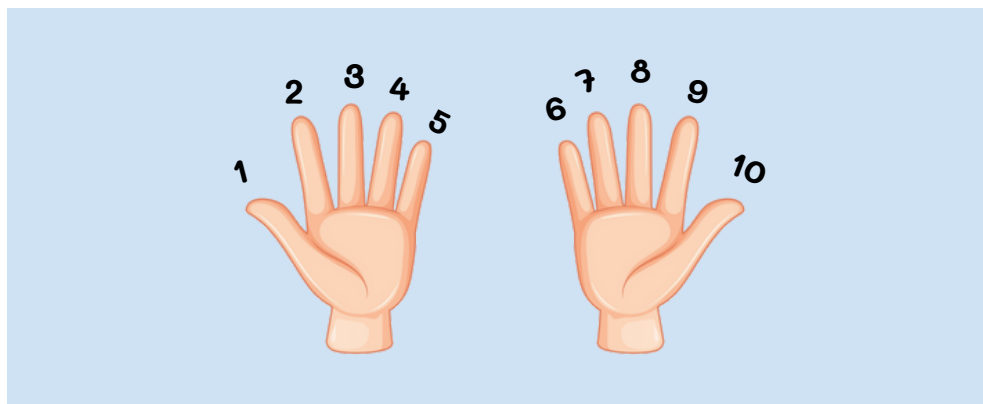
What is $8 + 9$?



We stopped counting at 17, so $8 + 9 = 17$.

Addition Practice

Use your fingers to help you add.



$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 9 \\ \hline \end{array}$$

$$3 + 3 =$$

$$6 + 7 =$$

$$3 + 4 =$$

$$7 + 2 =$$

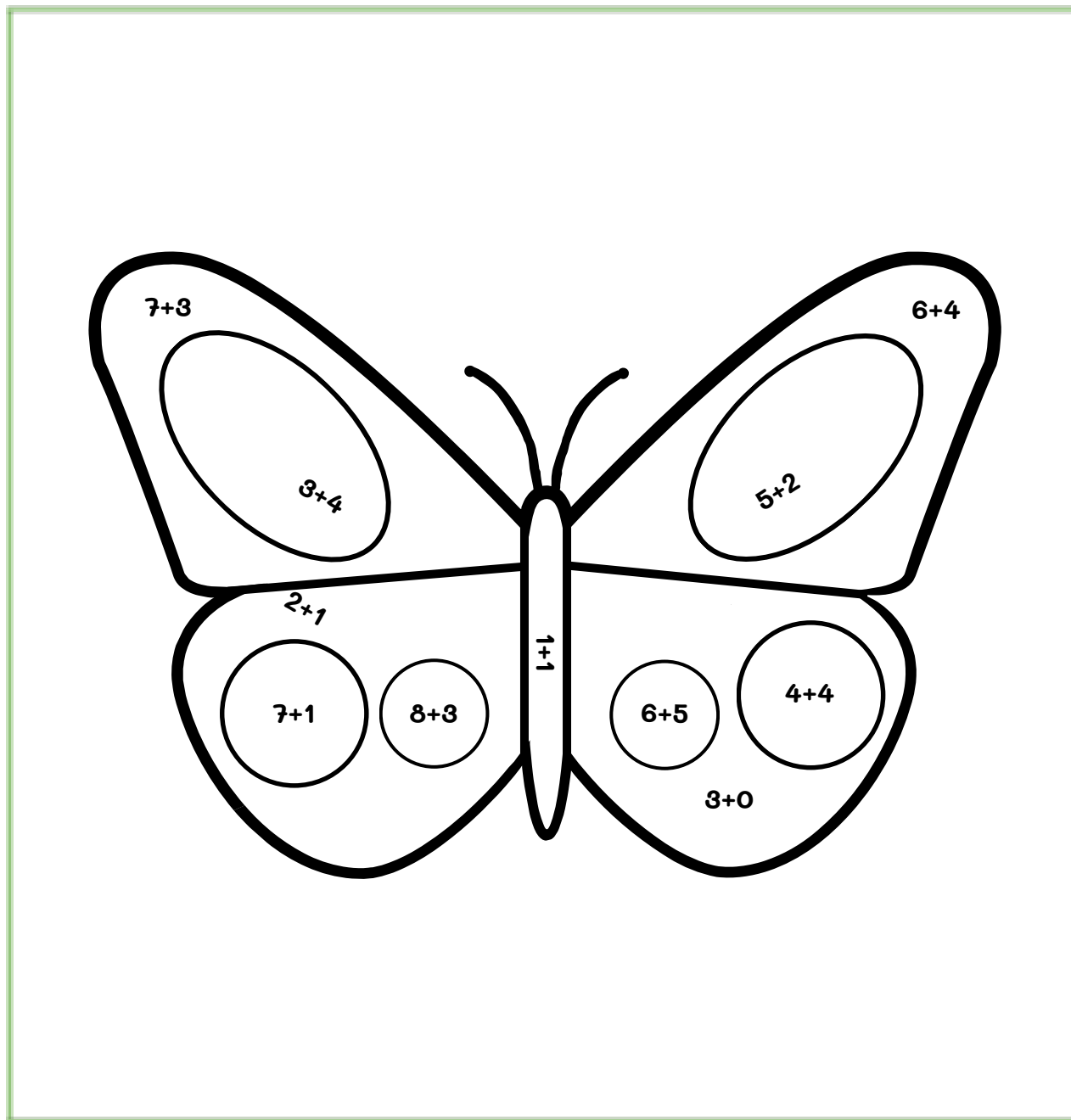
$$1 + 8 =$$

$$6 + 2 =$$

Colour By Number

Add the numbers and color in the picture based on the key below.

2	3	7	8	9	10	11
---	---	---	---	---	----	----



Acorn Path

Help the squirrel find its way to the acorn by solving the addition problems.

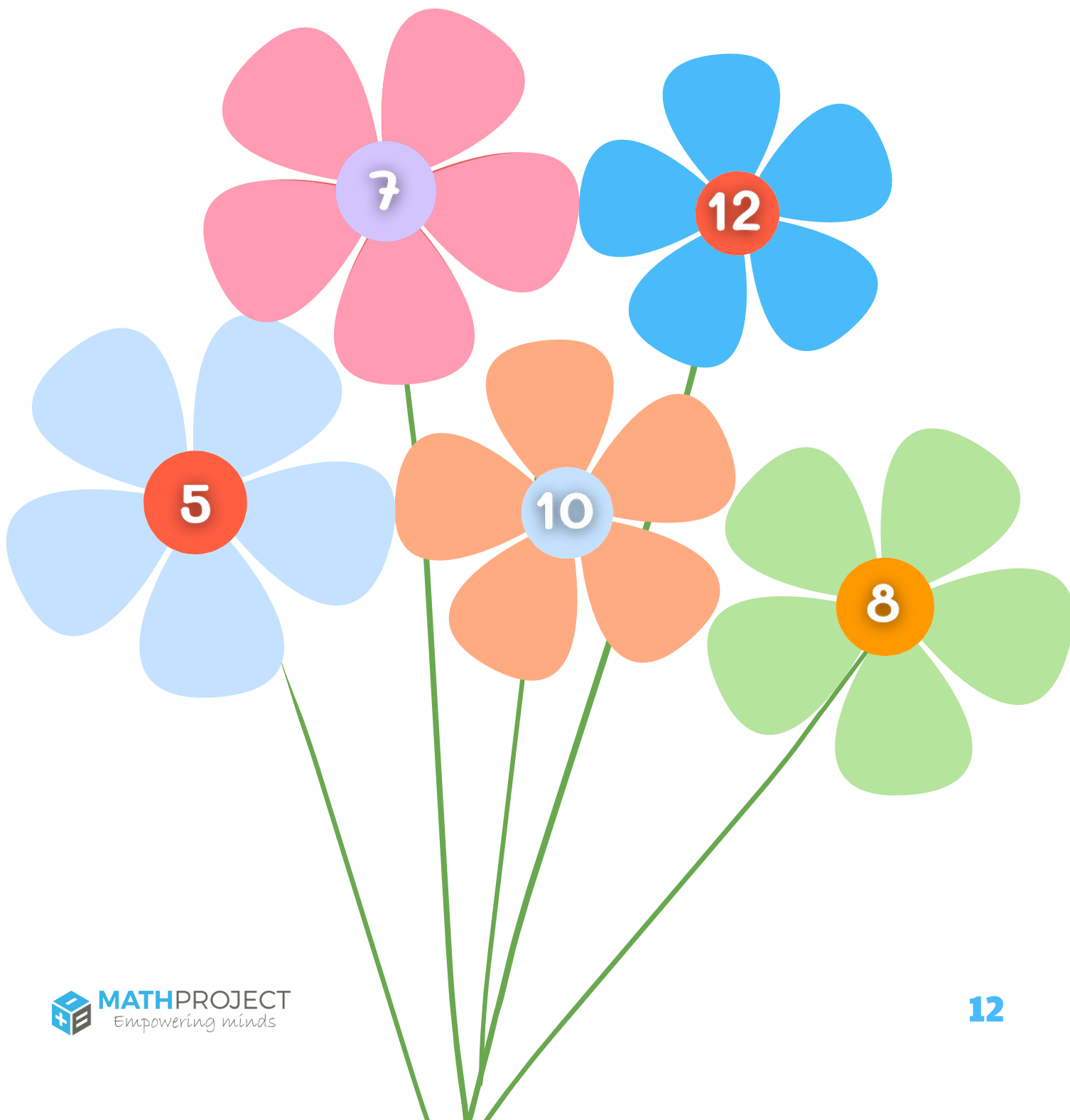
Color in the boxes where the answer is 9.



	$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$
$\begin{array}{r} 2 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$
$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$
$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$		$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$

Addition Flowers

Write one addition problem on each petal.
Each problem must equal the number in the center of the flower.



3 Number Addition

Add the 3 numbers in each box together and write the answer in the last box.

$$\boxed{2} + \boxed{6} + \boxed{2} = \boxed{}$$

$$\boxed{3} + \boxed{1} + \boxed{5} = \boxed{}$$

$$\boxed{3} + \boxed{3} + \boxed{6} = \boxed{}$$

$$\boxed{5} + \boxed{2} + \boxed{1} = \boxed{}$$

$$\boxed{4} + \boxed{5} + \boxed{4} = \boxed{}$$

Lesson: Subtraction with Pictures

We did a great job learning how to add. Now it is time to learn about subtraction!

—
Subtract

Subtraction means to take away.



“ I am going to eat 5 cookies ”



If there are 8 cookies in the jar and the boy eats 5 cookies, how many cookies are left in the jar?

The cookie jar has 8 cookies



He is eating 5 cookies



There are now 3 cookies left



By taking away the cookies that were eaten, we are able to see how many cookies are left.

Subtraction Practice

Count the number of items on the left.
Subtract by crossing out shapes and write how many you have left.



4 take away 1

$$4 - 1 = 3$$

equals



3



$$2 - 1 = \underline{\hspace{2cm}}$$



$$5 - 2 = \underline{\hspace{2cm}}$$



$$4 - 3 = \underline{\hspace{2cm}}$$



$$5 - 3 = \underline{\hspace{2cm}}$$



$$1 - 1 = \underline{\hspace{2cm}}$$



$$3 - 2 = \underline{\hspace{2cm}}$$

Subtraction Practice

Count the number of items on the left.
Subtract by crossing out and write how many you have left.



5 take away 3

$$5 - 3 = 2$$

equals



2



$$6 - 1 = \underline{\hspace{2cm}}$$



$$9 - 6 = \underline{\hspace{2cm}}$$



$$10 - 3 = \underline{\hspace{2cm}}$$



$$5 - 2 = \underline{\hspace{2cm}}$$



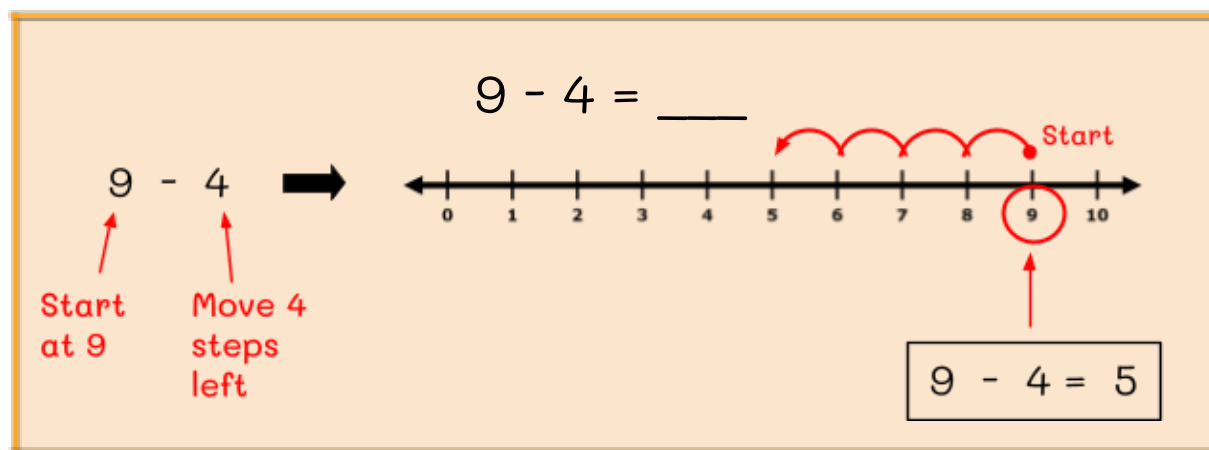
$$7 - 3 = \underline{\hspace{2cm}}$$



$$10 - 8 = \underline{\hspace{2cm}}$$

Lesson: Subtraction with a Number Line

Remember the number line we used when we were adding?
We can use it to help us subtract.



Use the number line to solve the following subtraction problems.

$3 - 2 = \square$	$4 - 0 = \square$	$10 - 5 = \square$
$6 - 2 = \square$	$10 - 8 = \square$	$2 - 1 = \square$
$9 - 7 = \square$	$1 - 1 = \square$	$8 - 1 = \square$
$5 - 4 = \square$	$7 - 3 = \square$	$6 - 6 = \square$

Subtraction Practice

Use the number line to help you subtract.



$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$6 - 3 =$

$6 - 4 =$

$9 - 0 =$

$7 - 2 =$

$5 - 0 =$

$10 - 6 =$

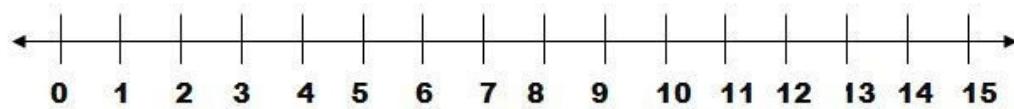
$4 - 1 =$

$5 - 3 =$

$8 - 5 =$

Bird Nest Subtraction

Write the answers to each subtraction problem on the egg in the nest. Use the number line to help you subtract the numbers.



 $11 - 4$	 $10 - 5$	 $7 - 1$
 $14 - 5$	 $4 - 3$	 $7 - 2$
 $6 - 5$	 $9 - 9$	 $15 - 8$
 $13 - 6$	 $7 - 3$	 $12 - 3$

Lesson: Subtraction with Fingers

We can also subtract using just our fingers!

Here are 2 different ways of using your fingers to subtract:

METHOD 1:

There are 4 fingers up, so $7 - 3 = 4$

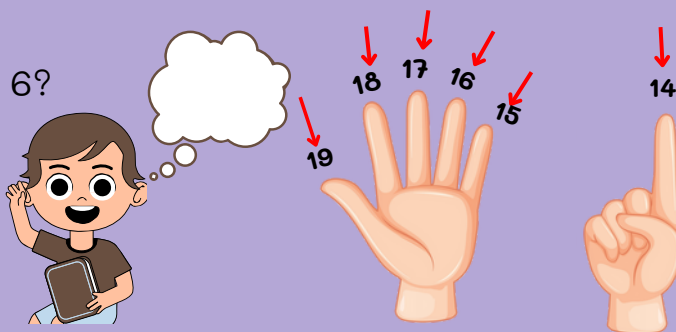
METHOD 2:

Think of the **first** number in your head. Put up the same number of fingers as the **second** number.

Count backwards from the number in your head while putting down one finger at a time.

Example:

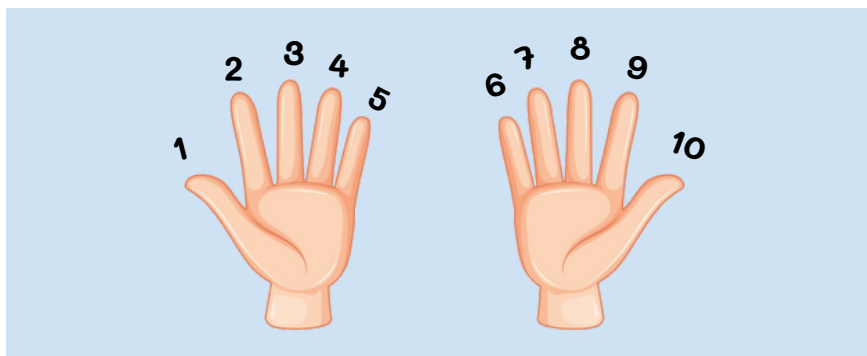
What is $20 - 6$?



We stopped counting at 14, so $20 - 6 = 14$.

Subtraction Practice

Use your fingers to help you subtract



$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$3 - 3 =$$

$$7 - 6 =$$

$$10 - 4 =$$

$$7 - 2 =$$

$$4 - 3 =$$

$$6 - 2 =$$

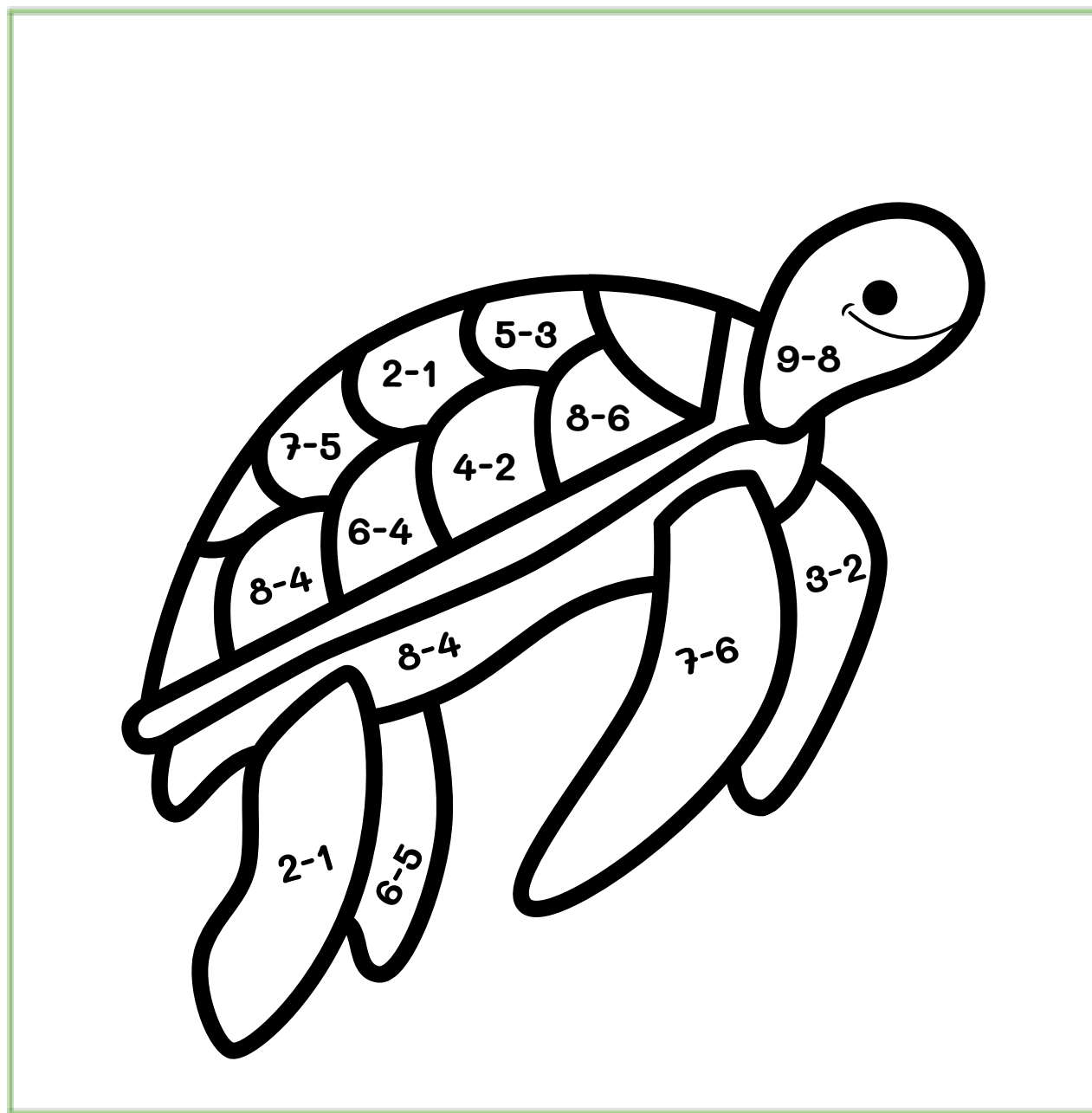
Bird Nest Path

Help the bird find its way to the nest by solving the subtraction problems. Color in the boxes where the answer is 3.

	$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$
$\begin{array}{r} 2 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$		$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$

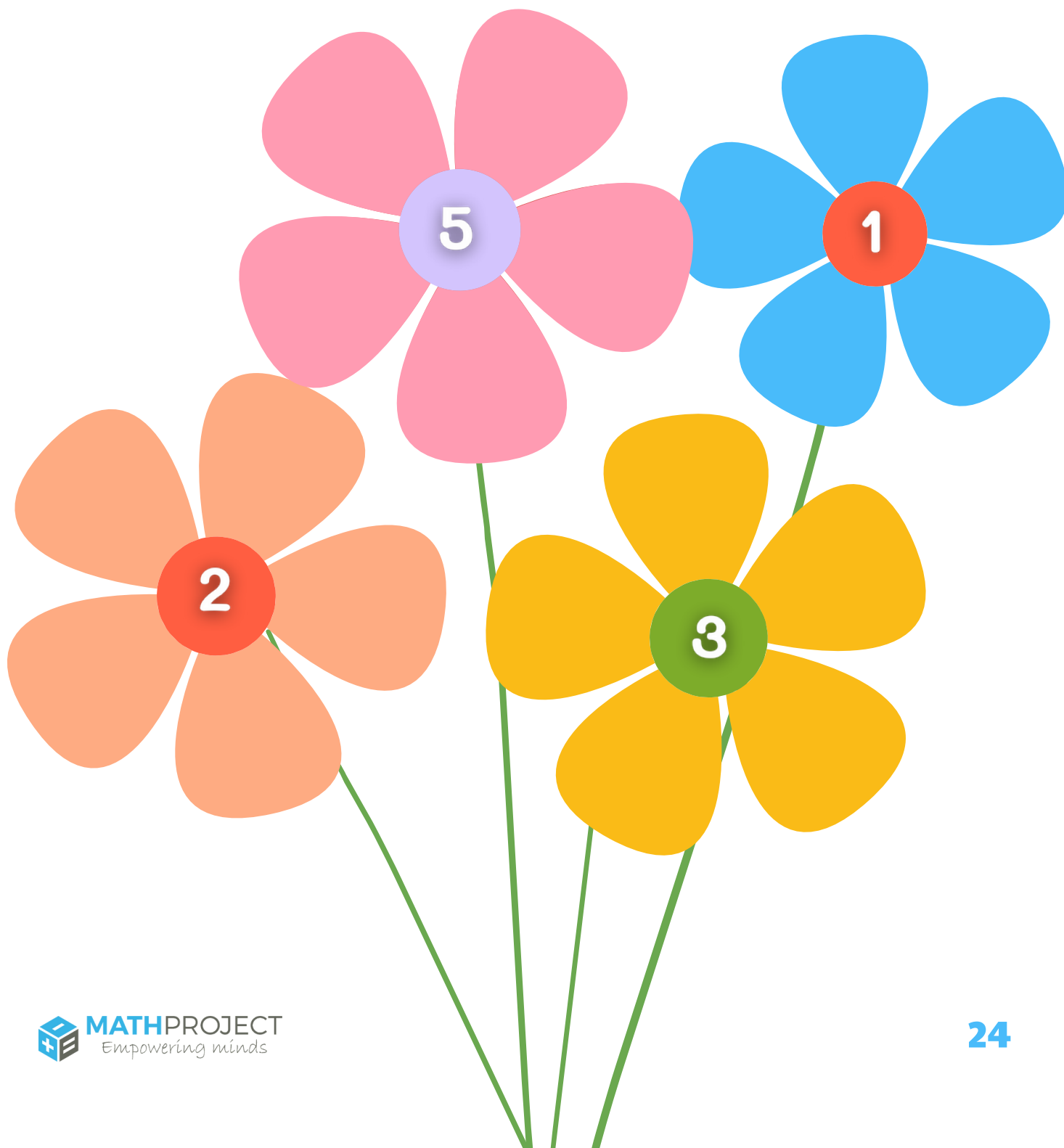
Colour By Number

Subtract the numbers and color in the picture based on the key below.



Subtraction Flowers

Write a subtraction problem on each petal.
Each problem you write must equal the number on the flower.



Lesson: Subtraction Word Problems

Always start by reading and understanding the question.
Look out for these keywords in subtraction word problems:

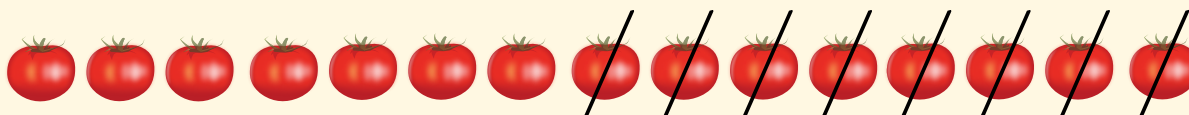
Difference Take away	Take away... Decrease by....	Less than... How many are left?
---------------------------------------	---	--

Remember you can use pictures and number lines to subtract!

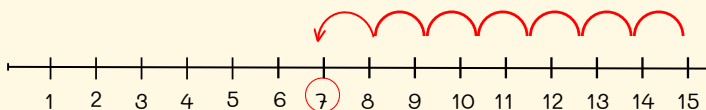
Example

Sasha grew **15** tomatoes in her garden.
She picked **8** tomatoes for dinner.
How many tomatoes are left?

The subtraction statement is: $15 - 8$



$$\begin{array}{r} 15 \\ - 8 \\ \hline 7 \end{array}$$



$$15 - 8 = 7$$

Sasha has 7 tomatoes left.

Fruit Subtraction

Read each word problem.

Write the subtraction statement and find the answer.

Ali had 7 apples.

He eats 2 apples when he gets home. How many apples does Ali have now?

$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

Molly had 4 pears.

She gives 1 pear to her mom.

How many pears does Molly have now?

$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

Jordan had 9 pineapples.

He eats 5 pineapples in the car.

How many pineapples does Jordan have now?

$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

Ignacio had 10 oranges.

He eats 10 oranges at school.

How many oranges does Ignacio have now?

$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

Inverse Operations

Let's explore the connections between addition and subtraction!

$$\text{If } 2 + 3 = 5, \quad \text{then} \quad 5 - 2 = \underline{\quad}$$

$$\text{If } 4 + 5 = 9, \quad \text{then} \quad 9 - 4 = \underline{\quad}$$

$$\text{If } 1 + 7 = 8, \quad \text{then} \quad 8 - 1 = \underline{\quad}$$

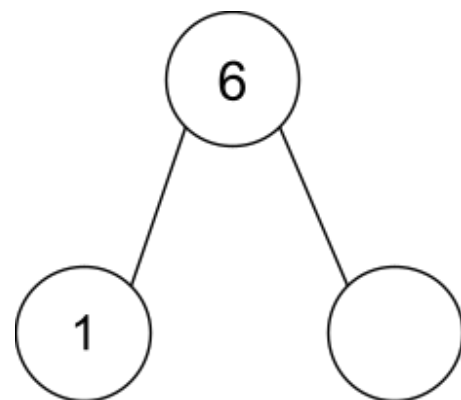
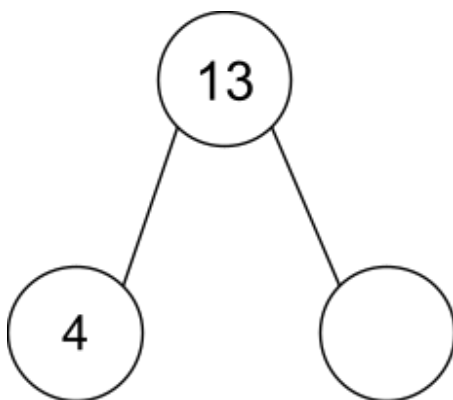
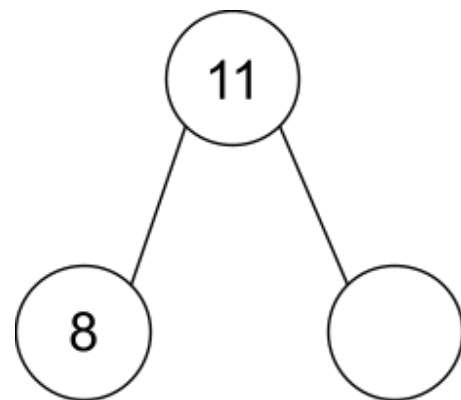
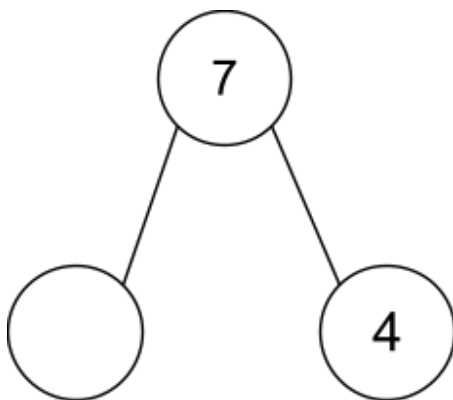
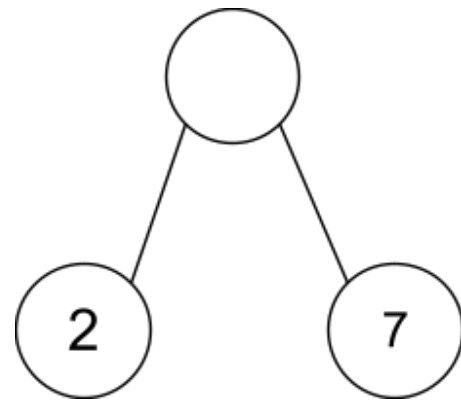
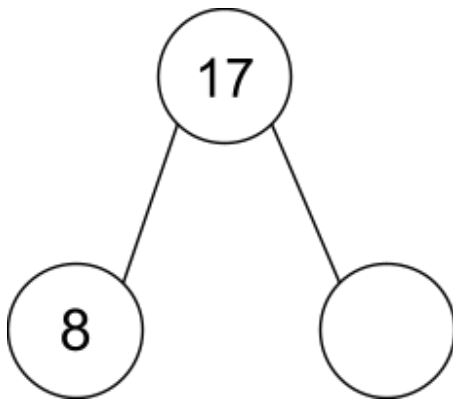
$$\text{If } 6 + 2 = 8, \quad \text{then} \quad 8 - 2 = \underline{\quad}$$

$$\text{If } 3 + 4 = 7, \quad \text{then} \quad 7 - 4 = \underline{\quad}$$

$$\text{If } 1 + 4 = 5, \quad \text{then} \quad 5 - 4 = \underline{\quad}$$

Number Bonds

Fill in the circles with the correct number.
The number at the top is the sum of the bottom two numbers.



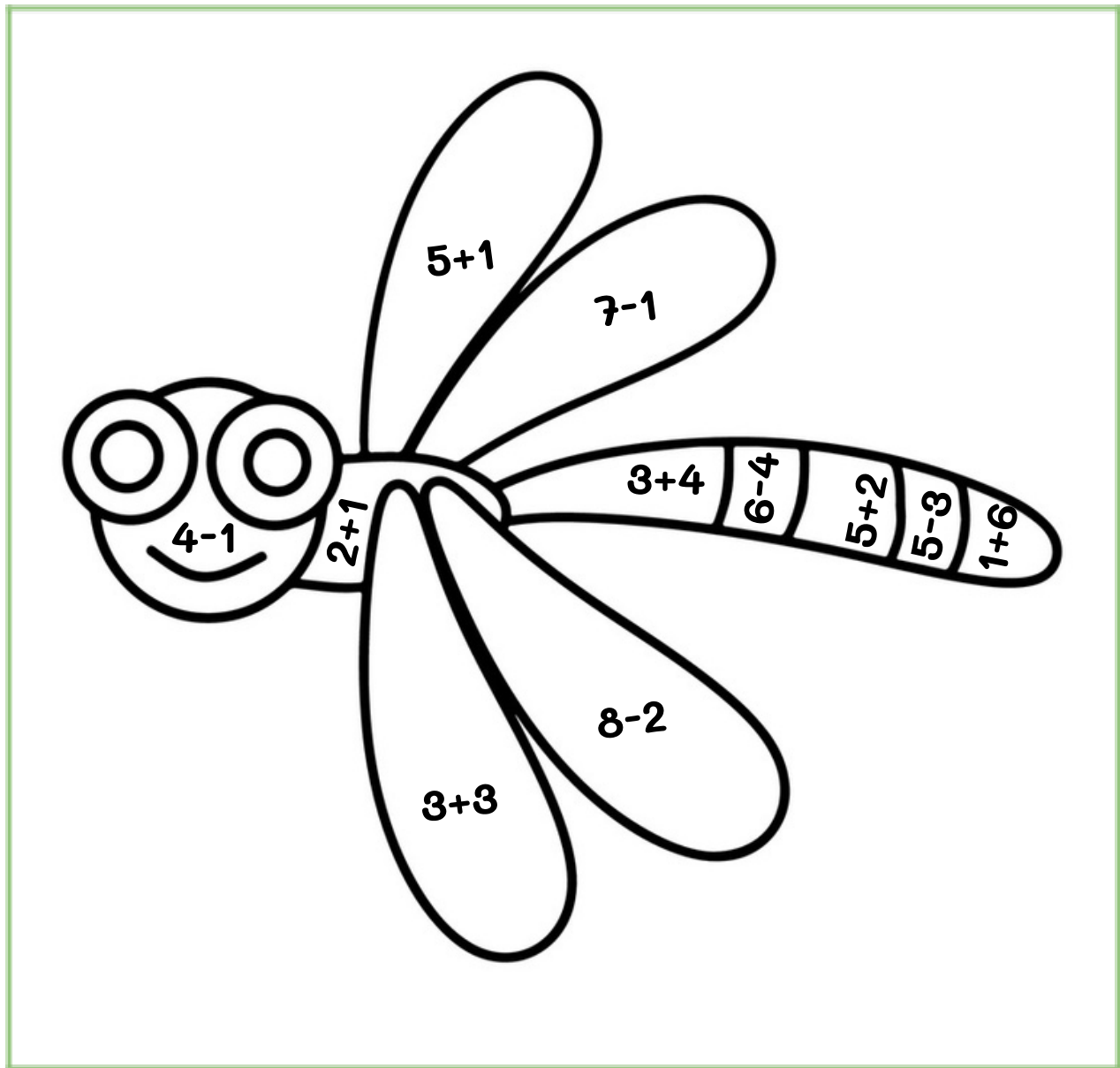
Fact Families

Each house contains a number from a **fact family**.
Use each group of numbers to create addition and subtraction statements.

  	  	  
$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$
  	  	  
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Colour By Number

Add or subtract the numbers and color in the picture based on the key below.



Mixed Math BINGO

Color in all the squares that equal 4.

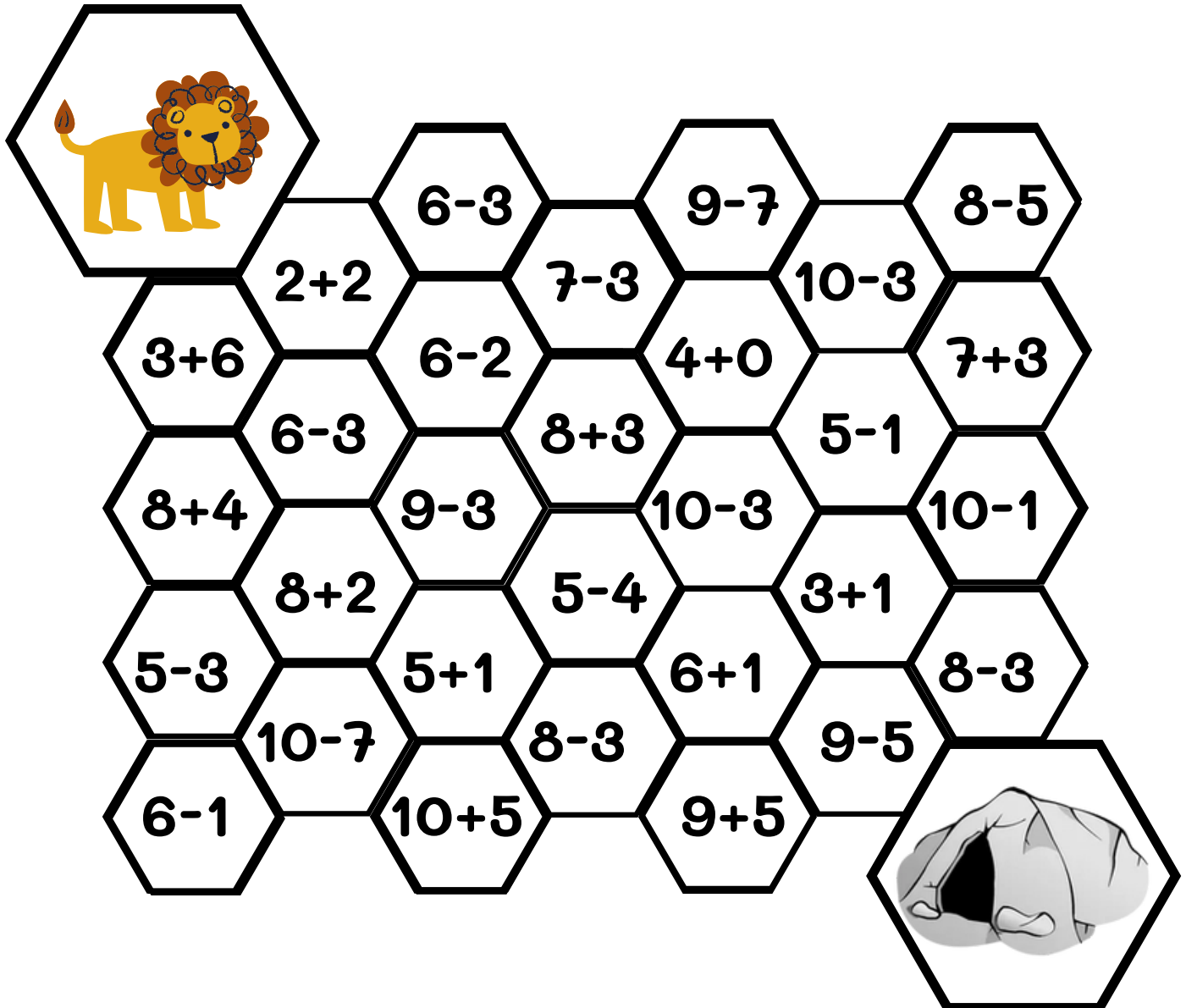
B I N G O

$5 - 4$	$10 + 6$	$8 - 4$	$4 - 1$	$9 + 4$
$9 - 4$	$5 + 3$	$7 - 4$	$5 - 3$	$10 - 8$
$10 - 7$	$4 + 3$	FREE	$5 + 1$	$9 + 1$
$2 + 2$	$7 - 3$	$8 - 4$	$1 + 3$	$5 - 1$
$4 - 3$	$7 - 5$	$6 + 4$	$10 - 4$	$9 - 4$

Did you get BINGO? _____

Number Maze

UH-OH! The lion can not find his way back home.
Color in all the hexagons that equal 4 to make a path for the lion.



Animal Word Problems

Read each word problem and underline keywords.
Write the addition or subtraction statement and find the answer.

Mya has **1** dog.
She adopts **2** more dogs from the shelter.
How many dogs does Mya have now?

_____ = _____

Jeff saw **7** elephants at the zoo.
He saw **4** more in a different exhibit.
How many elephants did Jeff see in total?

_____ = _____

Mackenzie saw **12** birds in the tree.
Then she sees **6** birds flying away.
How many birds are left on the tree?

_____ = _____

James wants **7** goldfish.
He also wants **4** clownfish.
How many fish does James want in total?

_____ = _____

Addition and Subtraction

Mixed Math Word Problems

Solve the addition and subtraction word problems.
You can use any method to help you solve the questions.

You have read 9 books and have 5 more to read.
How many books will you read in total?

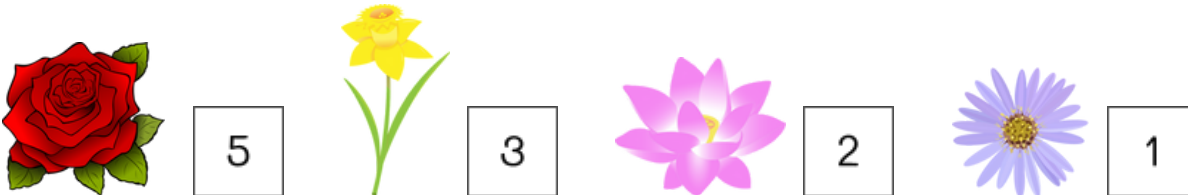
You have 7 apples and you give 3 to your friend.
How many apples do you have left?

You need 2 eggs for an omelette and 6 eggs for a cake.
How many eggs do you need in total?

You bought 4 onions at the store but you lost 2 of them on your way home.
How many onions do you have left?

Flower Puzzle

The value of each type of flower is shown below.
Determine the sum of each row and column, by adding the numbers of each flower.



				= 8
				= ____
				= ____
				= ____
= 7	= ____	= ____	= ____	

Lesson: 2-Digit Addition

When we start adding **bigger** and **bigger** numbers, drawing pictures, using a number line can become hard to do.

Example

We want to solve $13 + 5$

How do we add the numbers together?

- ➔ Start by writing the numbers vertically
Make sure the columns line up.
- ➔ First add the right column: $3 + 5 = 8$
- ➔ Then add the left column: $1 + 0 = 1$
- ➔ $13 + 5 = 18$ is our answer.

$$\begin{array}{r} 13 \\ + 5 \\ \hline 18 \end{array}$$

Example

We want to solve $23 + 25$

- ➔ Start by writing the numbers vertically
Make sure the columns line up.
- ➔ First add the right column: $3 + 5 = 8$
- ➔ Then add the left column: $2 + 2 = 4$
- ➔ $23 + 25 = 48$ is our answer.

$$\begin{array}{r} 23 \\ + 25 \\ \hline 48 \end{array}$$

Desert Addition

Solve the following addition problems.



$$\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 8 \\ \hline \end{array}$$



Lesson: 2-Digit Subtraction

When we start subtracting **bigger** and **bigger** numbers, drawing pictures, using a number line can become hard to do.
We can use a similar method like we did with 2 digit addition.

Example

We want to solve $19 - 5$

How do we add the numbers together?

- ➔ Start by writing the numbers vertically. Make sure the columns line up.
- ➔ First subtract the right column: $9 - 5 = 4$
- ➔ Then subtract the left column: $1 - 0 = 1$
- ➔ $19 - 5 = 14$ is our answer.

Left column		Right column
1		9
-		5
—		4
		14

Example

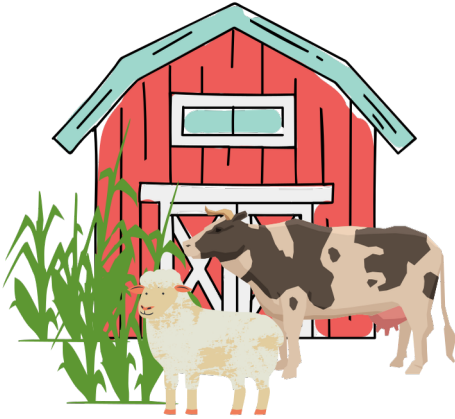
We want to solve $48 - 31$

- ➔ Start by writing the numbers vertically. Make sure the columns line up.
- ➔ First subtract the right column: $8 - 1 = 7$
- ➔ Then subtract the left column: $4 - 3 = 1$
- ➔ $48 - 31 = 17$ is our answer.

Left column		Right column
4		8
-		1
—		7
		17

Farm Subtraction

Solve the following subtraction problems.



$$\begin{array}{r} 43 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ - 44 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ - 33 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ - 24 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 13 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ - 31 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ - 31 \\ \hline \end{array}$$



Answer Key

Addition

Animal Addition

Count and add the number of animals together.

 +  = 3 + 1 = 4

 +  = 3 + 2 = 5

 +  = 3 + 3 = 6

 +  = 2 + 2 = 4

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1

Addition

Dairy Addition

In each row, add the number of dairy products on the left and write the sum in the box on the right.

 +  =
$$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$$

 +  =
$$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$$

 +  =
$$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$$

 +  =
$$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$$

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2

Addition

Addition

Draw pictures to help you add the numbers.

$$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array}$$

Colour 5 of the following tomatoes.



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3

Addition

Addition Practice

Now it is your turn to practice!

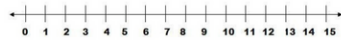
Practice your adding skills and use the number line below if you get stuck.

$$6 + 3 = 9$$

$$1 + 5 = 6$$

$$10 + 4 = 14$$

$$7 + 6 = 13$$



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5

Addition

Penguin Addition

Each penguin has an addition problem that needs to be solved. Write the answer on the egg beside him.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

 $6 + 9$	 $12 + 1$	 $1 + 8$
 $4 + 7$	 $2 + 3$	 $3 + 2$
 $7 + 8$	 $4 + 6$	 $8 + 1$
 $5 + 1$	 $4 + 9$	 $5 + 2$
 $5 + 7$	 $5 + 6$	 $8 + 7$

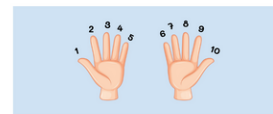
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6

Addition

Addition Practice

Use your fingers to help you add.



$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$	$\begin{array}{r} 9 \\ + 4 \\ \hline 13 \end{array}$	$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array}$	$\begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$
$\begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ + 2 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ + 1 \\ \hline 9 \end{array}$
$\begin{array}{r} 1 \\ + 4 \\ \hline 5 \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$	$\begin{array}{r} 3 \\ + 2 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$

$3 + 3 = 6$ $6 + 7 = 13$ $3 + 4 = 7$
 $7 + 2 = 9$ $1 + 8 = 9$ $6 + 2 = 8$

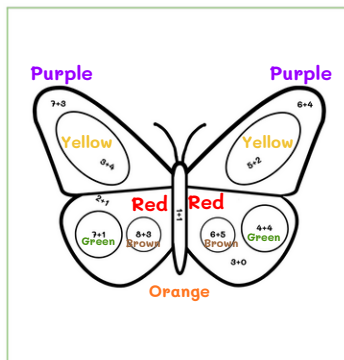
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9

Addition

Colour By Number

Add the numbers and color in the picture based on the key below.



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10

Addition

Acorn Path

Help the squirrel find its way to the acorn by solving the addition problems. Color in the boxes where the answer is 8.

$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ + 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 6 \\ + 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ + 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$	$\begin{array}{r} 6 \\ + 1 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array}$
$\begin{array}{r} 5 \\ + 9 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ + 1 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ + 5 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ + 7 \\ \hline 11 \end{array}$	$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$
$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ + 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ + 6 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$	$\begin{array}{r} 8 \\ + 5 \\ \hline 13 \end{array}$	$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$
$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ + 6 \\ \hline 7 \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ + 6 \\ \hline 8 \end{array}$	$\begin{array}{r} 8 \\ + 4 \\ \hline 12 \end{array}$
$\begin{array}{r} 7 \\ + 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array}$	$\begin{array}{r} 3 \\ + 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$	$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$
$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ + 8 \\ \hline 11 \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ + 9 \\ \hline 14 \end{array}$	$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ + 8 \\ \hline 13 \end{array}$
$\begin{array}{r} 7 \\ + 9 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ + 8 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$	$\begin{array}{r} 6 \\ + 4 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$

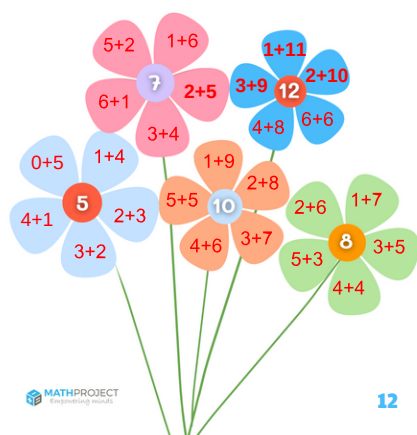
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11

Addition

Addition Flowers

Write one addition problem on each petal. Each problem must equal the number in the center of the flower.



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12

Addition

Add the 3 numbers in each box together and write the answer in the last box.

Subtraction

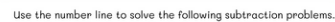
Count the number of items on the left.
Subtract by crossing out shapes and write how many you have left.

Subtraction

Count the number of items on the left.
Subtract by crossing out and write how many you have left.

Subtraction

Remember the number line we used when we were adding?
We can use it to help us subtract.



Subtraction

Use the number line to help you subtract.

Subtraction

Write the answers to each subtraction problem on the egg in the nest. Use the number line to help you subtract the numbers.

Subtraction

Use your fingers to help you subtract.

Subtraction

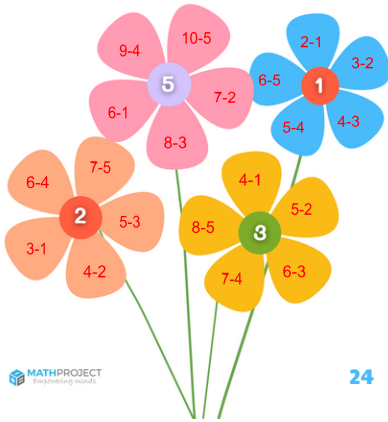
Help the bird find its way to the nest by solving the subtraction problems. Color in the boxes where the answer is 3.

Subtraction

Subtract the numbers and color in the picture based on the key below.

Subtraction Flowers

Write a subtraction problem on each petal.
Each problem you write must equal the number on the flower.



Fruit Subtraction

Read each word problem.
Write the subtraction statement and find the answer.

Ali had 7 apples.
He eats 2 apples when he gets home. How many apples does Ali have now?
 $7 - 2 = 5$

Molly had 4 pears.
She gives 1 pear to her mom.
How many pears does Molly have now?
 $4 - 1 = 3$

Jordan had 9 pineapples.
He eats 5 pineapples in the car.
How many pineapples does Jordan have now?
 $9 - 5 = 4$

Ignacio had 10 oranges.
He eats 10 oranges at school.
How many oranges does Ignacio have now?
 $10 - 10 = 0$

Inverse Operations

Let's explore the connections between addition and subtraction!

If $2 + 3 = 5$, then $5 - 2 = 3$

If $4 + 5 = 9$, then $9 - 4 = 5$

If $1 + 7 = 8$, then $8 - 1 = 7$

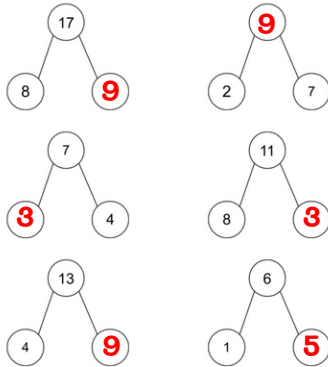
If $6 + 2 = 8$, then $8 - 2 = 6$

If $3 + 4 = 7$, then $7 - 4 = 3$

If $1 + 4 = 5$, then $5 - 4 = 1$

Number Bonds

Fill in the circles with the correct number.
The number at the top is the sum of the bottom two numbers.



Fact Families

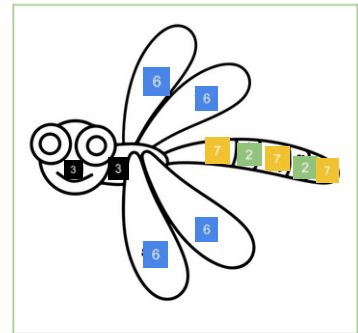
Each house contains a number from a fact family.
Use each group of numbers to create addition and subtraction statements.

7, 11, 4	4, 8, 2	14, 22, 8
$7 + 4 = 11$ $4 + 7 = 11$ $11 - 7 = 4$ $11 - 4 = 7$	$4 + 2 = 6$ $2 + 4 = 6$ $6 - 4 = 2$ $6 - 2 = 4$	$14 + 8 = 22$ $8 + 14 = 22$ $22 - 14 = 8$ $22 - 8 = 14$
10, 12, 2	1, 4, 5	10, 17, 7
$2 + 10 = 12$ $10 + 2 = 12$ $12 - 2 = 10$ $12 - 10 = 2$	$1 + 3 = 4$ $3 + 1 = 4$ $4 - 1 = 3$ $4 - 3 = 1$	$7 + 10 = 17$ $10 + 7 = 17$ $17 - 7 = 10$ $17 - 10 = 7$
7, 8, 1	4, 5, 11	5, 12, 9
$7 + 1 = 8$ $1 + 7 = 8$ $8 - 7 = 1$ $8 - 1 = 7$	$4 + 11 = 15$ $11 + 4 = 15$ $15 - 4 = 11$ $15 - 11 = 4$	$3 + 9 = 12$ $9 + 3 = 12$ $12 - 3 = 9$ $12 - 9 = 3$

Colour By Number

Add or subtract the numbers and color in the picture based on the key below.

2 3 6 7



Mixed Math BINGO

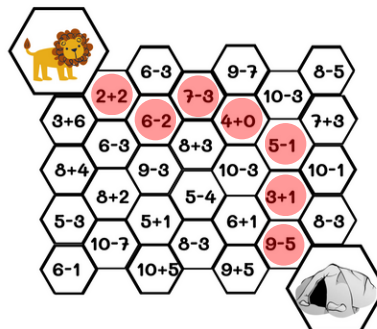
Color in all the squares that equal 4.

B	I	N	G	O
5 - 4	10 + 6	8 - 4	4 - 1	9 + 4
9 - 4	5 + 3	7 - 4	5 - 3	10 - 8
10 - 7	4 + 3	FREE	5 + 1	9 + 1
2 + 2	7 - 3	8 - 4	1 + 3	5 - 1
4 - 3	7 - 5	6 + 4	10 - 4	9 - 4

Did you get BINGO? **Yes**

Number Maze

UH-OH! The lion can not find his way back home.
Color in all the hexagons that equal 4 to make a path for the lion.



Animal Word Problems

Read each word problem and underline keywords.
Write the addition or subtraction statement and find the answer.

Mya has 1 dog.
She adopts 2 more dogs from the shelter.
How many dogs does Mya have now?
 $1 + 2 = 3$

Jeff saw 7 elephants at the zoo.
He saw 4 more in a different exhibit.
How many elephants did Jeff see in total?
 $7 + 4 = 11$

Mackenzie saw 12 birds in the tree.
Then she sees 6 birds flying away.
How many birds are left on the tree?
 $12 - 6 = 6$

James wants 7 goldfish.
He also wants 4 clownfish.
How many fish does James want in total?
 $7 + 4 = 11$

Addition and Subtraction

Mixed Math Word Problems

Solve the addition and subtraction word problems. You can use any method to help you solve the questions.

You have read 8 books and have 5 more to read. How many books will you read in total?

14

You have 7 apples and you give 3 to your friend. How many apples do you have left?

4

You need 2 eggs for an omelet and 6 eggs for a cake. How many eggs do you need in total?

8

You bought 4 onions at the store but you lost 2 of them on your way home. How many onions do you have left?

2

Flower Puzzle

The value of each type of flower is shown below. Determine the sum of each row and column, by adding the numbers of each flower.



				= 6
				= 14
				= 10
				= 12

= 7 = 13 = 13 = 11

Desert Addition

Solve the following addition problems.



$$\begin{array}{r} 10 \\ + 3 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 12 \\ + 7 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 14 \\ + 4 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 20 \\ + 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 66 \\ + 1 \\ \hline 67 \end{array}$$

$$\begin{array}{r} 30 \\ + 8 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 11 \\ + 4 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 15 \\ + 2 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 32 \\ + 6 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 11 \\ + 8 \\ \hline 19 \end{array}$$



Farm Subtraction

Solve the following subtraction problems.



$$\begin{array}{r} 43 \\ - 23 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 55 \\ - 44 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 79 \\ - 48 \\ \hline 31 \end{array}$$

$$\begin{array}{r} 55 \\ - 33 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 58 \\ - 42 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 67 \\ - 24 \\ \hline 43 \end{array}$$

$$\begin{array}{r} 13 \\ - 13 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 48 \\ - 31 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 57 \\ - 25 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 43 \\ - 31 \\ \hline 12 \end{array}$$



Build your child's confidence in Math!



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At MathProject, we firmly believe that mastering mathematics develops the problem-solving abilities of a child. Our mission is to deliver math education that cultivates 'problem-solvers' who are capable of shaping our future!

Why Us?

- Personalized Learning Plans
- Qualified Teachers
- Interactive Sessions
- Generous Teaching Hours
- Weekly Progress Tracking
- 5-star Google Reviews



Our 100% online, virtual program welcomes students of all grade levels, from kindergarten through grade 12, from all over USA and Canada.

What our parents are saying:

My daughter has evolved a lot since she started doing the MathProject one year ago. The teachers are always very kind and patient with her. The school became very easy for her now and her grades are always above 90% in math. Besides, it is online, so no time wasted in traffic or waiting room.

- Marcello Valença

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Our Method:

1

Free Skills Assessment

Students begin by taking a **free assessment** that allows us to assess their current knowledge and skill level.

2

Customized Learning Plan

With a clear understanding of the student's current skill level, our team develops a customized study plan that will ensure each student's progress at their own pace through our curriculum while simultaneously building their confidence and mastery of the concepts.

3

Performance Reviews

Our team continuously monitors a student's progress to ensure they are mastering the concepts. We administer regular tests to verify student progress and skill retention. Parents are informed weekly of the student progress.

Competitor Analysis:

Differentiators	MathProject	Kumon	Mathnasium	Spirit of Math
Maximum Weekly Teaching Hours	1.5 to 6 hours	0.5 hours	2 to 2.5 hours	1.5 hours
Student to Teacher Ratio	3:1	Nil	5:1	20:1
Customized Learning Plan for each Student	Yes	No	Yes	No
Test Prep for Gifted Programs and Math Contests	Yes	No	No	Yes
Unlimited Access to math curriculum and worksheets	Yes	No	No	No
Daily Drop-In Sessions (for math homework help)	Yes	No	No	No
Fostering a relationship with the teacher	Yes	No	No	No
Ongoing timed Assessments and Tests	Yes	No	No	No
Performance (money-back) Guarantee*	Yes	No	No	No

Note: Terms and conditions apply on any guarantees offered. See MathProject website for details.

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MATHPROJECT
Empowering minds

Dive into the world of arithmetic mastery with MathProject Curriculum! Tailored for students in Kindergarten to Grade 2, this is an abridged version of the comprehensive workbook designed to equip young learners with the necessary tools and strategies to tackle addition and subtraction with confidence.

Key Features of the Comprehensive Workbook:

- **Comprehensive Addition and Subtraction Methods:** Introduces four distinct methods for addition and subtraction, including various finger counting techniques and the effective use of a number line. Each method is thoroughly explained, giving students a well-rounded toolkit to choose from based on their individual preferences and learning styles.
- **Hands-On Learning:** Thoughtfully organized, providing ample opportunities for students to explore each method. Curious minds can experiment with different approaches and discover multiple ways to solve single-digit and simple double digit addition and subtraction problems.
- **Word Problem Solving:** Includes word problems for both addition and subtraction. Students are equipped with tips and tricks to solve these word problems with ease, fostering a deeper understanding of real-world problem-solving.
- **Colorful and Engaging Worksheets:** The workbook features 129 pages of colorful, fun, and engaging worksheets. These activities are designed to captivate young learners while honing their skills in addition and subtraction.
- **Method-Specific Lessons:** Each addition and subtraction method comes with a dedicated lesson page and examples, ensuring students grasp the nuances of each technique. This structured approach enhances comprehension and builds confidence.
- **Accelerated Learning:** Simple mixed operation practice and challenge pages propel students ahead of their grade level, fostering a sense of accomplishment and readiness for more advanced mathematical concepts.
- **Inverse Operations and Relationship Understanding:** Goes beyond basic calculations, teaching students the concept of inverse operations and helping them understand the intricate relationship between addition and subtraction.

Empower your young learners with the essential skills to navigate the world of addition and subtraction confidently. MathProject curriculum is the key to unlocking mathematical prowess, paving the way for quick and accurate problem-solving!



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