



# The Nine Planets

## Understanding Number Lines Worksheets

### Understanding Number Lines



GRADE 2



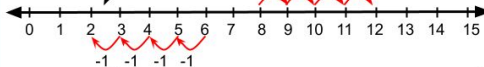
In math, a number line can be defined as a straight line with numbers placed at equal intervals or segments along its length. A number line can be extended infinitely in any direction and is usually represented horizontally.

#### Whole Numbers in Number Line

A **number ladder** is the vertical version of a number line.

Numbers increase left to right

+1 +1 +1 +1



Numbers decrease right to left



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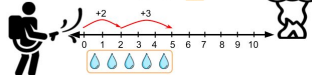
#### Addition and Subtraction Using Number Lines

Number lines can be used to do addition and subtraction of simple numbers.

##### Addition

In adding numbers, the direction of movement is to the right.

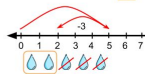
$$2 + 3 = 5$$



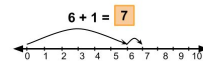
##### Subtraction

When subtracting numbers, move to the left the value of second number.

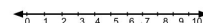
$$5 - 3 = 2$$



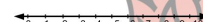
Solve the following by drawing hops on the number line.



$$1 + 5 = \square$$



$$2 + 8 = \square$$



$$1 + 4 = \square$$



$$2 + 6 = \square$$



Name: \_\_\_\_\_

Score: \_\_\_\_\_

Burning House



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# Understanding Number Lines



GRADE 2

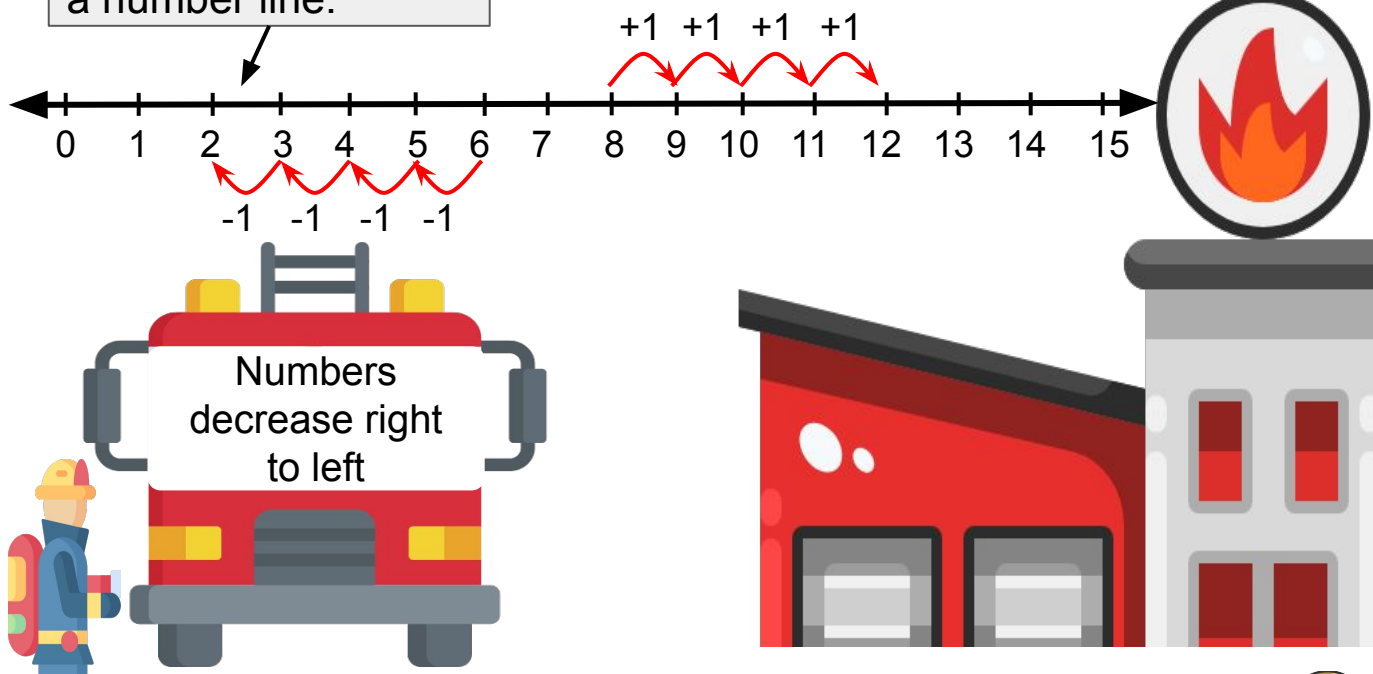


In math, a number line can be defined as a straight line with numbers placed at equal intervals or segments along its length. A number line can be extended infinitely in any direction and is usually represented horizontally.

## Whole Numbers in Number Line

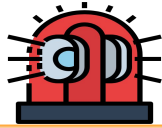
A **number ladder** is the vertical version of a number line.

Numbers increase  
left to right



## Addition and Subtraction Using Number Lines

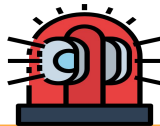
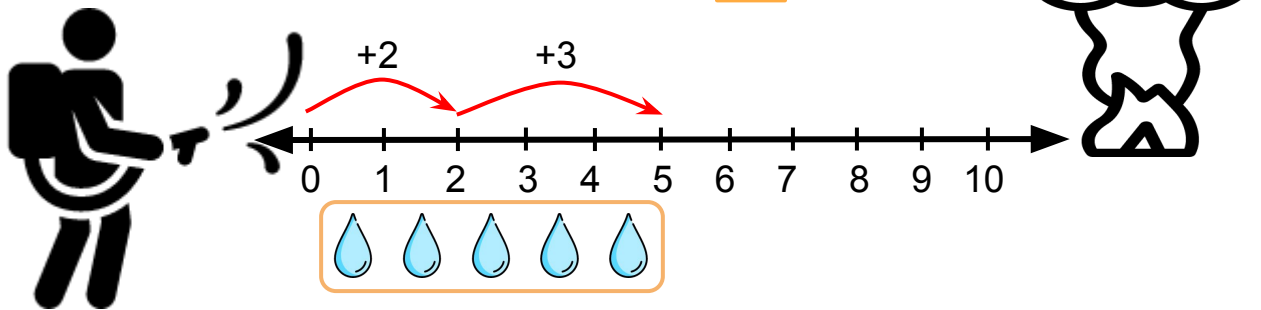
Number lines can be used to do addition and subtraction of simple numbers.



### Addition

In adding numbers, the direction of movement is to the right.

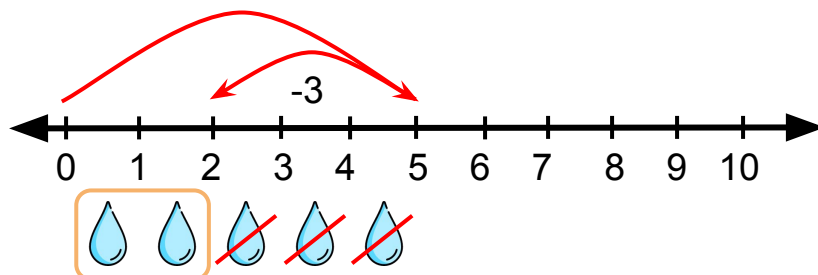
$$2 + 3 = 5$$



### Subtraction

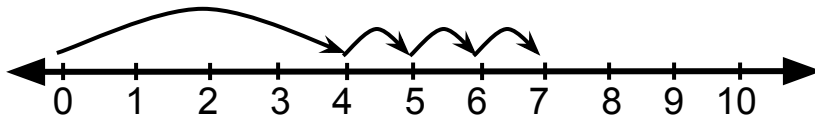
When subtracting numbers, move to the left with reference to the value of second number.

$$5 - 3 = 2$$



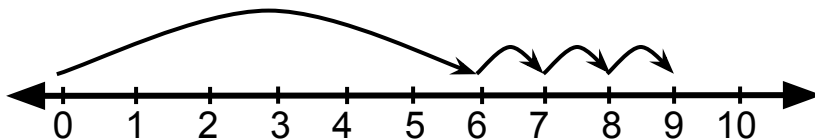
Write the number sentence.

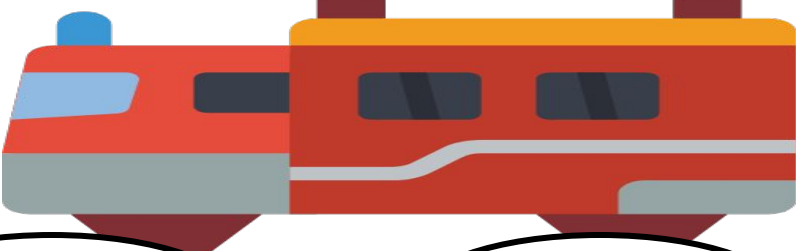
1



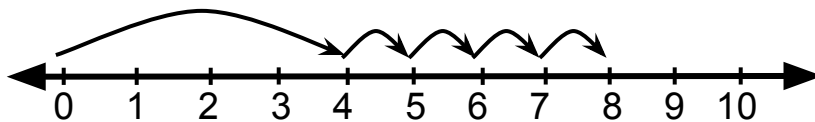
$$\text{4} + \text{3} = \text{7}$$

2




$$\text{ } + \text{ } = \text{7}$$

3

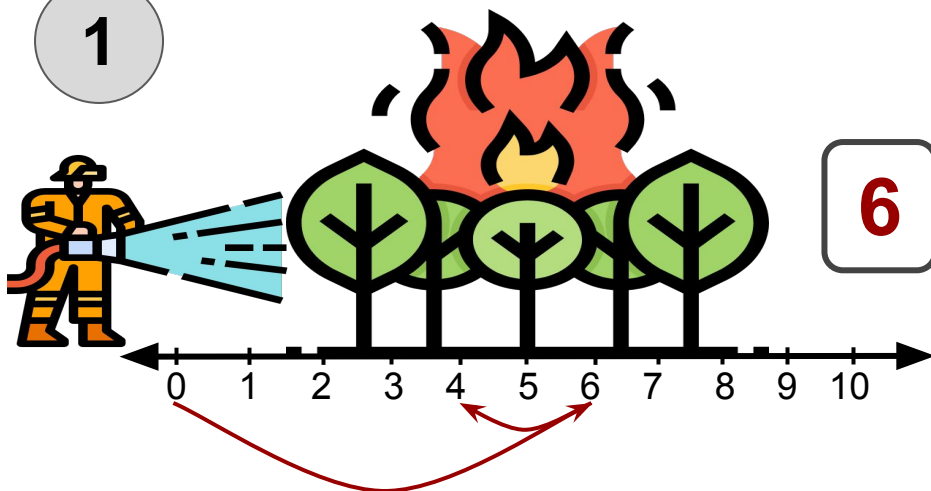


$$\text{ } + \text{ } = \text{9}$$

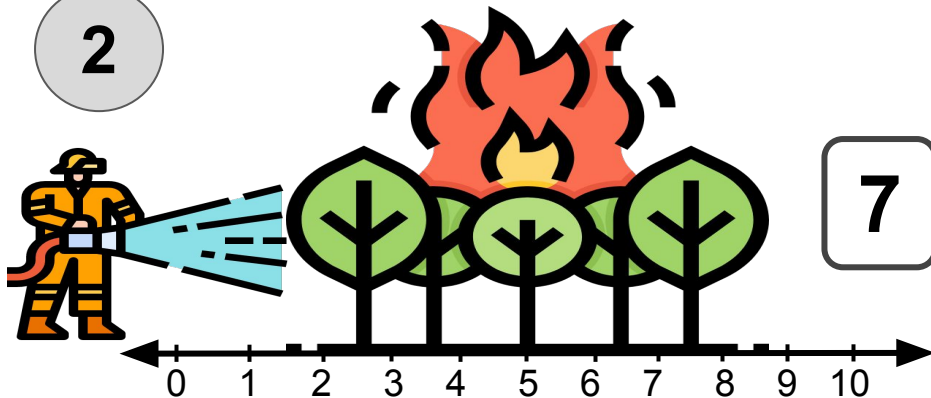


Subtract by drawing hops on the number line.

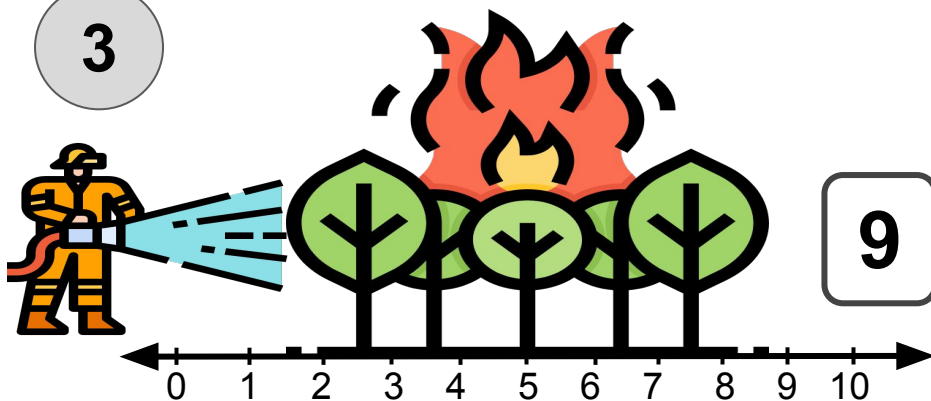
1



2

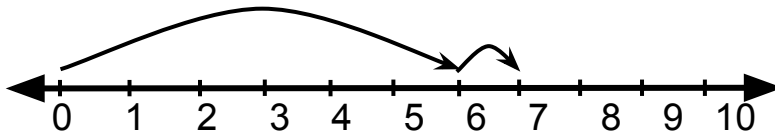


3

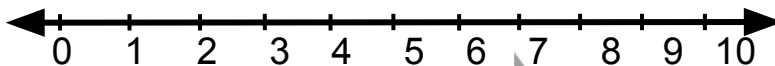


Solve the following by drawing hops on the number line.

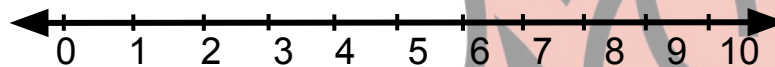
$$6 + 1 = \boxed{7}$$



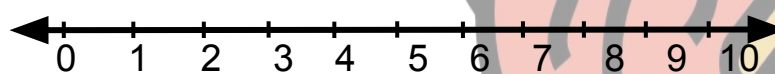
$$1 + 5 = \boxed{\phantom{00}}$$



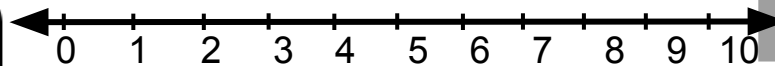
$$2 + 8 = \boxed{\phantom{00}}$$



$$1 + 4 = \boxed{\phantom{00}}$$

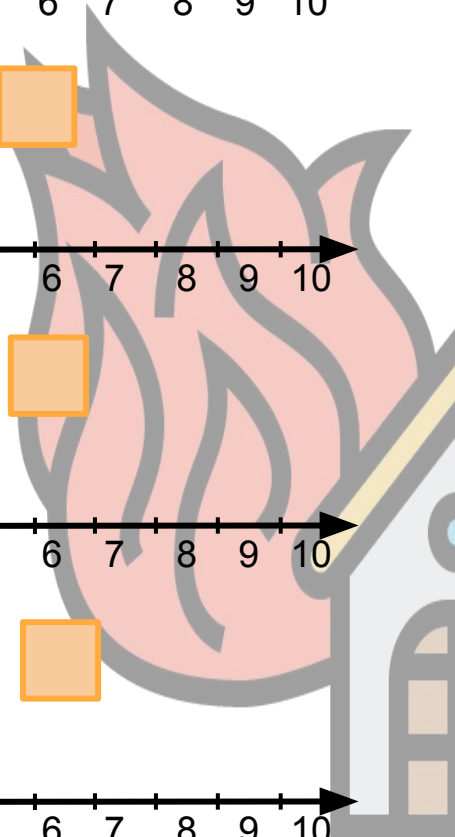
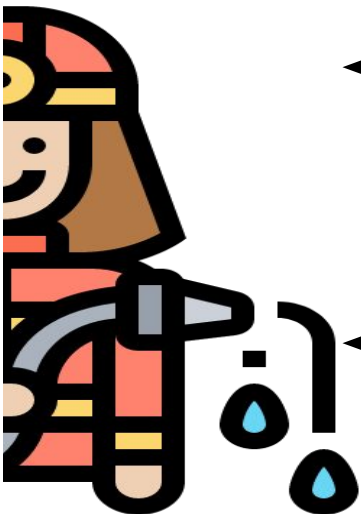


$$2 + 6 = \boxed{\phantom{00}}$$



Burning House

1

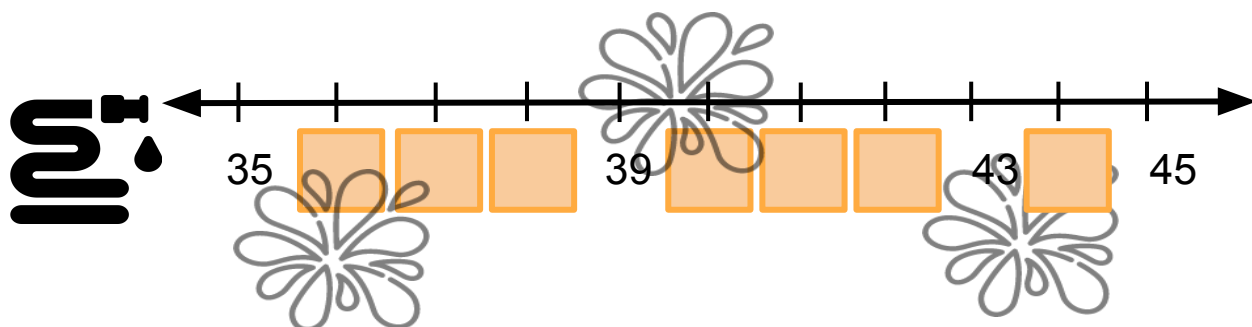
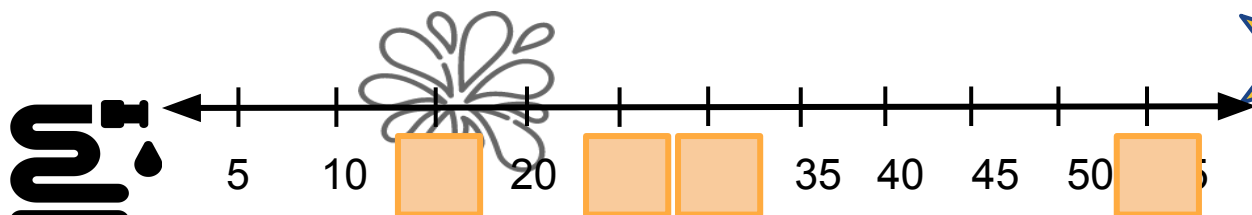
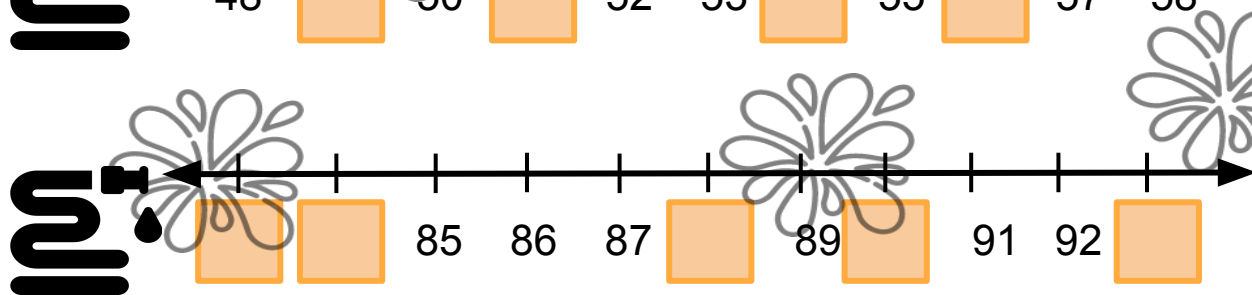
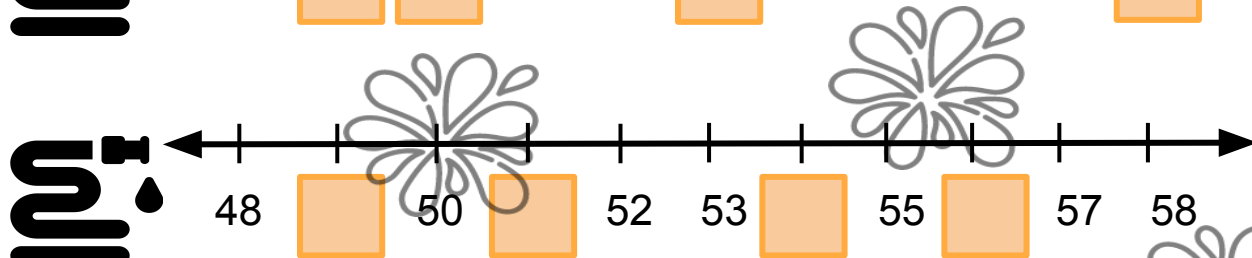
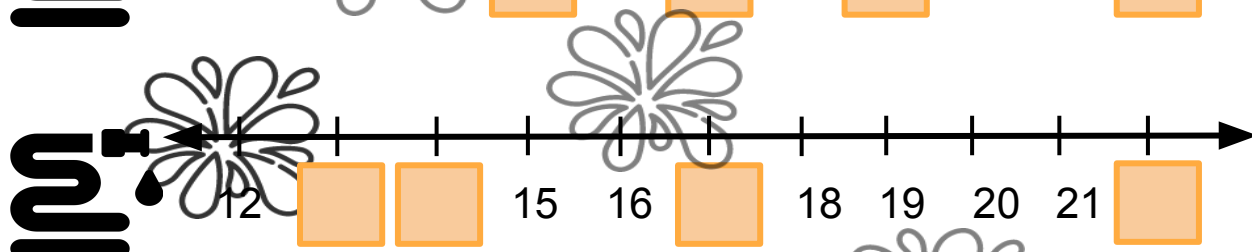
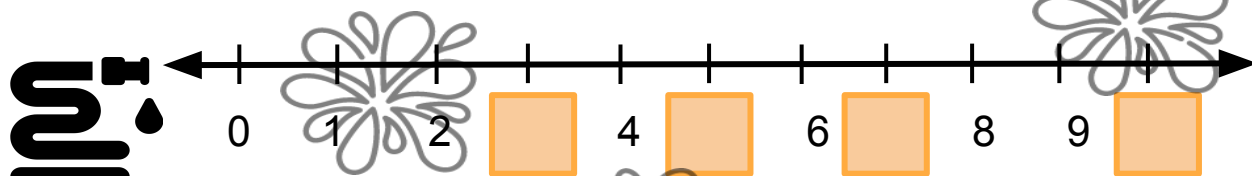


Name: \_\_\_\_\_ Score: \_\_\_\_\_



Fill in the missing number on the number lines below.

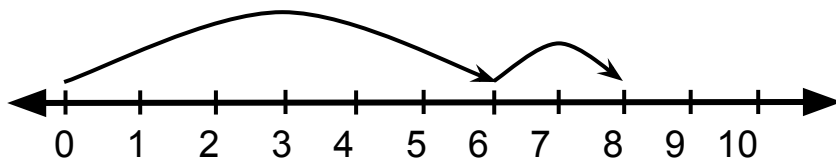
Fire Hose



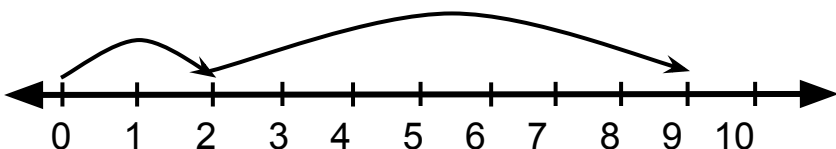


Look at the number lines and complete the addition sentence.

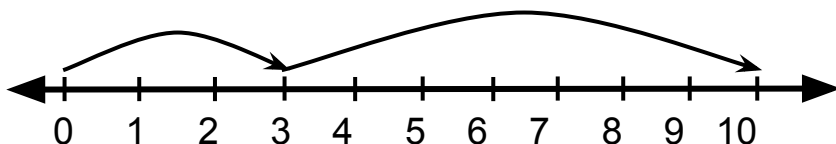
# Building Fire



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



Name: \_\_\_\_\_ Score: \_\_\_\_\_



Finish the number sentence. Use the number lines to help.

The image shows three cartoon helicopters arranged vertically. Each helicopter has a propeller at the top and a tail rotor at the back. The body of each helicopter is a horizontal oval containing a number line from 0 to 10. Below the body is a horizontal bar with several blue water droplets hanging from it. The first helicopter is orange and has the equation  $1 + 8 = \square$ . The second is white and has the equation  $2 + 5 = \square$ . The third is orange and has the equation  $6 + 3 = \square$ . To the right of the helicopters, the text 'He-li-Water' is written vertically. At the bottom right, there is a large yellow star with the number 4 inside it, and a dashed line with a star at the top and bottom.

He-li-Water

$1 + 8 = \square$

$2 + 5 = \square$

$6 + 3 = \square$

Name: \_\_\_\_\_ Score: \_\_\_\_\_



In each case, color the subtraction sentence that matches the number line.

Sentence Case

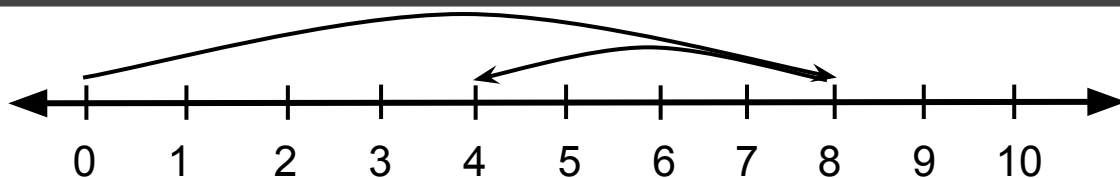


$6 + 4 = 10$

$4 - 2 = 2$

$4 + 2 = 6$

$6 - 4 = 2$

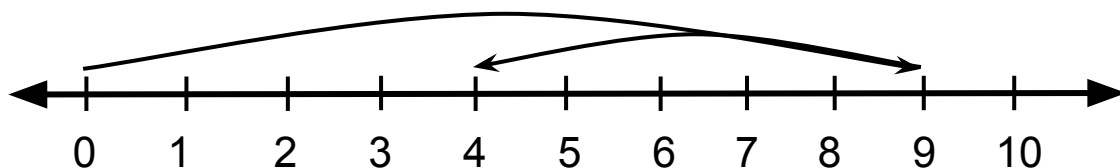


$6 + 2 = 8$

$8 + 4 = 12$

$4 - 4 = 0$

$8 - 4 = 4$

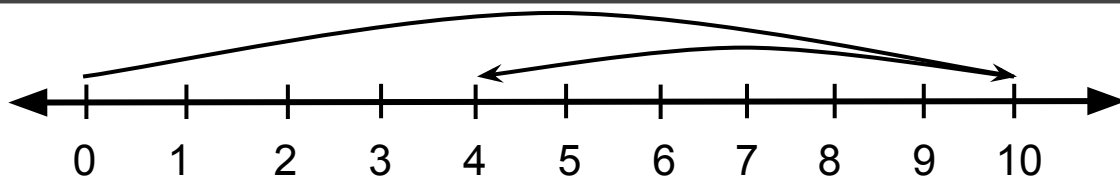


$9 - 5 = 4$

$9 - 4 = 5$

$4 + 9 = 13$

$9 + 0 = 9$



$4 + 10 = 14$

$10 - 6 = 4$

$10 - 4 = 6$

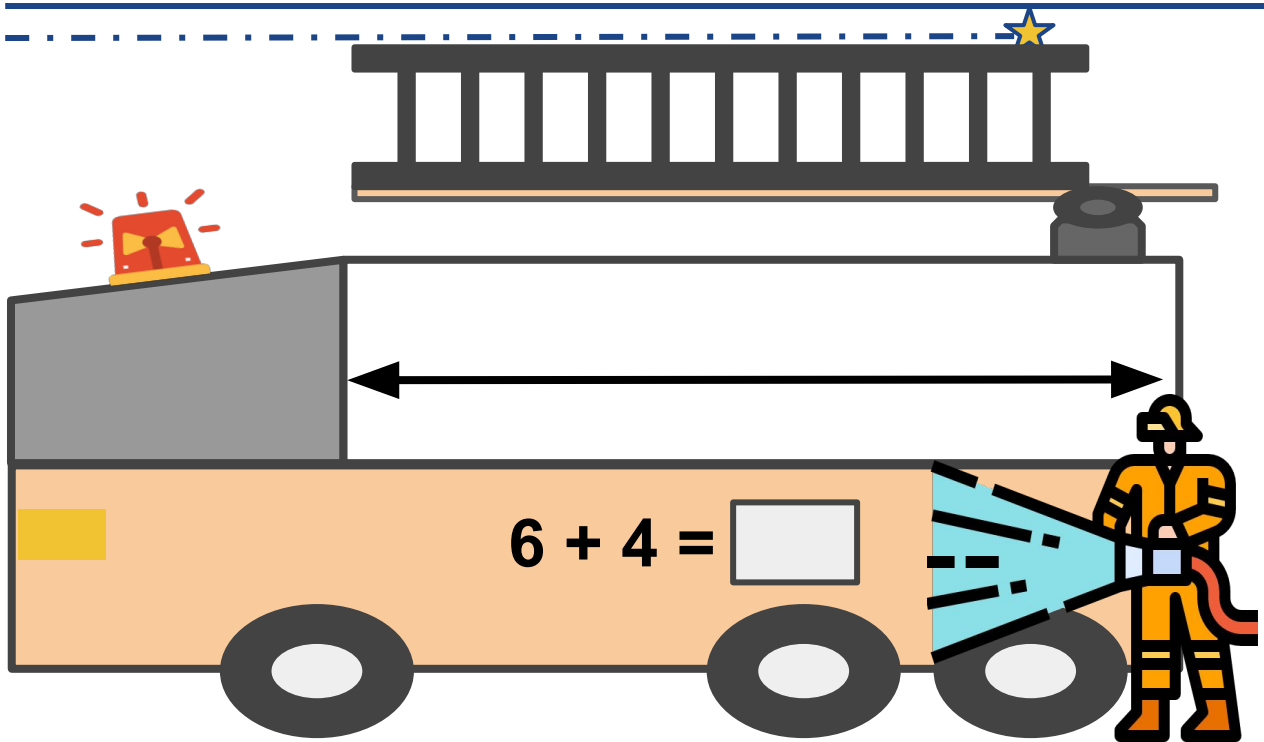
$6 + 4 = 10$

5

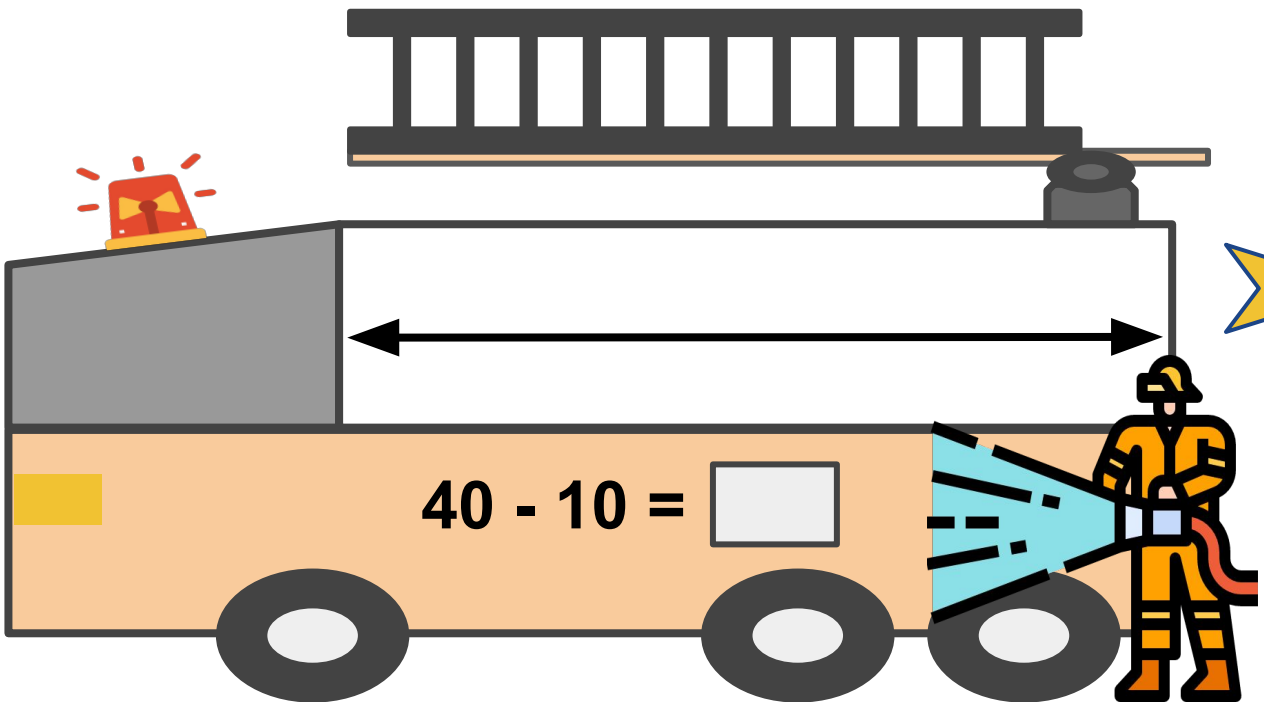
Name: \_\_\_\_\_ Score: \_\_\_\_\_



Use the number line to solve the equation.



Fire Truck



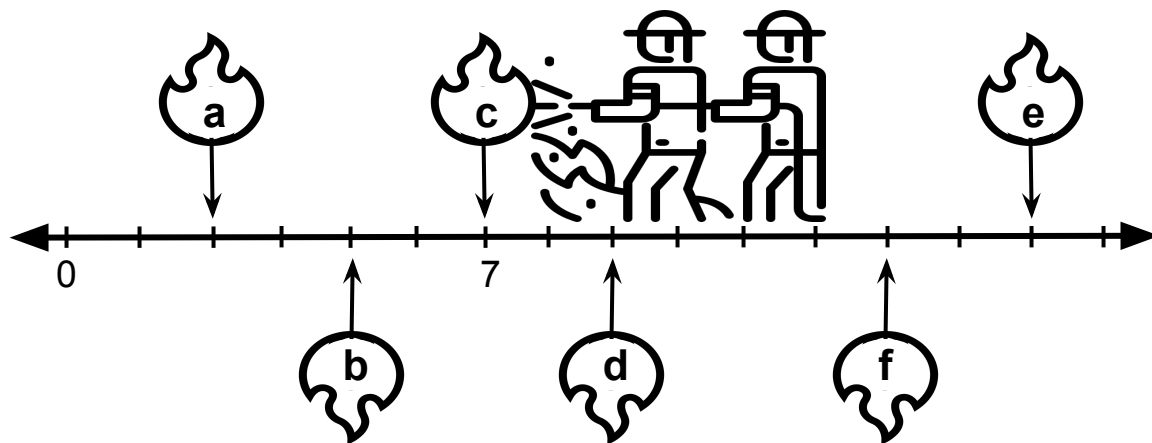
6

Name: \_\_\_\_\_ Score: \_\_\_\_\_

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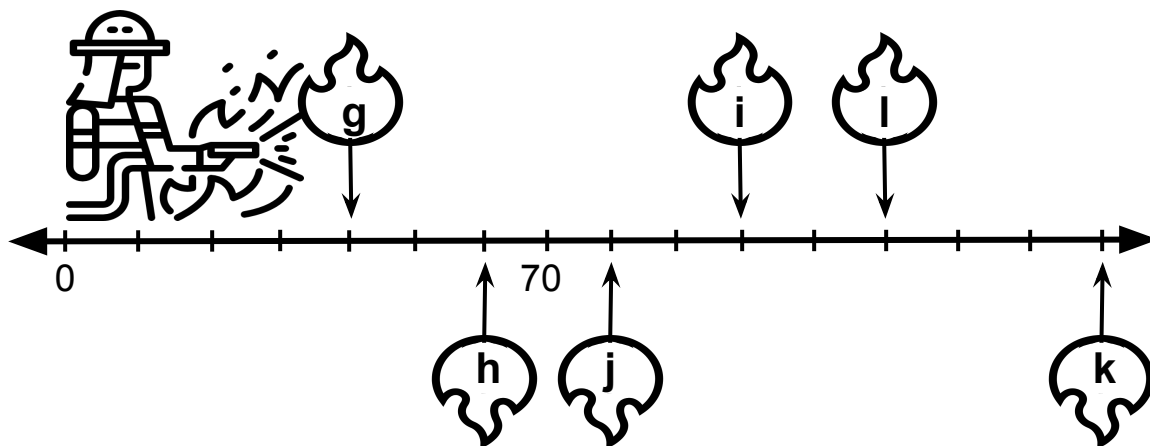


Write the correct number on the blank line next to each letter.



a. 2  
b. \_\_\_\_\_  
c. \_\_\_\_\_

d. \_\_\_\_\_  
e. \_\_\_\_\_  
f. \_\_\_\_\_



g. 40  
h. \_\_\_\_\_  
i. \_\_\_\_\_

j. \_\_\_\_\_  
k. \_\_\_\_\_  
l. \_\_\_\_\_

Firefighter

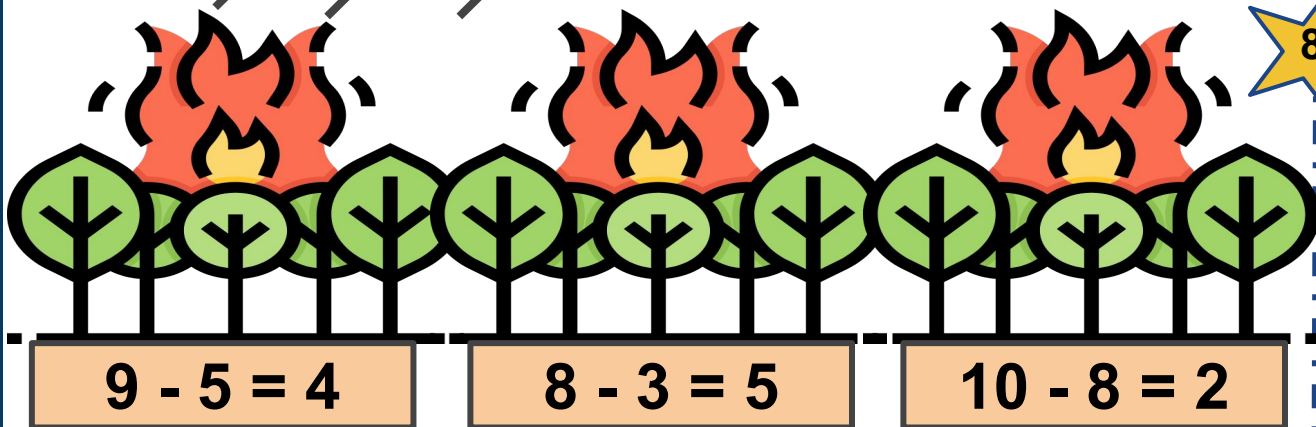
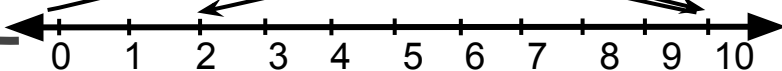
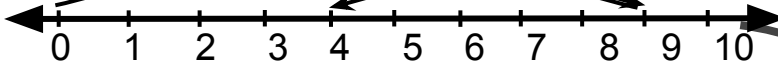
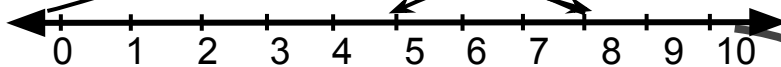
Name: \_\_\_\_\_ Score: \_\_\_\_\_

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Match the number line to its correct equation.

Rain for Fire



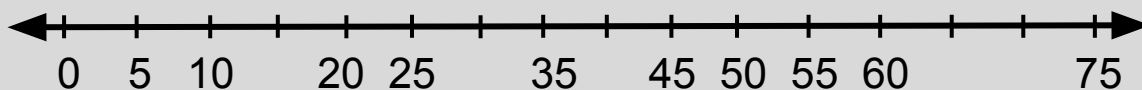
8

Name: \_\_\_\_\_ Score: \_\_\_\_\_

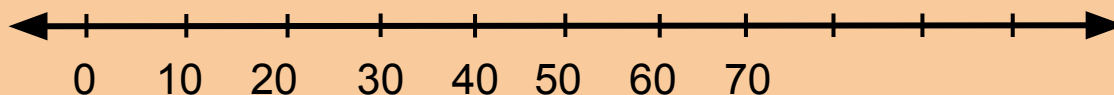


Read the instructions or questions and give the correct answers.

Fill the Whats

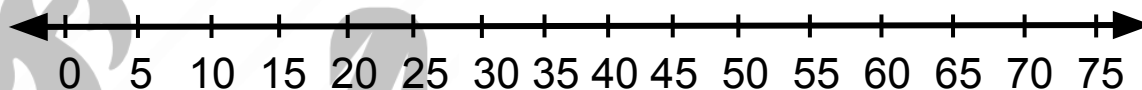


Fill in the missing numbers on the number line.



What are the next three numbers?

\_\_\_\_\_



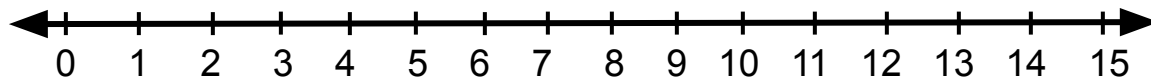
What number is 15 after 55? \_\_\_\_\_

Is that the same as adding  $15 + 55$ ? **Yes** **No**

Name: \_\_\_\_\_ Score: \_\_\_\_\_



Use the number line below to help you solve your addition and subtraction problems. Encircle the correct answer.



Hosequation

$4 + 5 = \underline{\quad}$ 	$6 + 4 = \underline{\quad}$ 	$3 + 3 = \underline{\quad}$ 	$7 + 3 = \underline{\quad}$ 
$9 - 4 = \underline{\quad}$ 	$1 - 0 = \underline{\quad}$ 	$7 - 2 = \underline{\quad}$ 	$10 - 0 = \underline{\quad}$ 
$13 + 1 = \underline{\quad}$ 	$10 + 5 = \underline{\quad}$ 	$4 + 9 = \underline{\quad}$ 	$5 + 8 = \underline{\quad}$ 
$8 - 2 = \underline{\quad}$ 	$15 - 9 = \underline{\quad}$ 	$11 - 2 = \underline{\quad}$ 	$14 - 7 = \underline{\quad}$ 



Name: \_\_\_\_\_ Score: \_\_\_\_\_





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- The Entire Nine Planets Team :)

