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MATHEMATICS

Quarter 1 - Module 8
Illustrate Addition of 2-Digit and by 1-Digit Number on the Number Line

MATHEMATICS - Grade 2
Quarter 1 - Module 8 Illustrate Addition of 2-Digit and by 1-Digit Numbers on the Number Line
Self-Learning Module (SLM)
MATATAG Curriculum
First Edition, 2025

Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are clearly stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

A Pre-test is provided to measure your prior knowledge on lessons in each SLM. This will tell if you need to proceed on completing this module, or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teachers are also provided to the facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. Read carefully the instructions before performing each task.

If you have any questions in using this SLM or any difficulty in doing the tasks in this module, do not hesitate to consult your teachers or facilitator.

Thank you.

For the learner

Welcome to the Mathematics - Grade 2 Self-Learning Module (SLM) on Illustrating Addition of 2-Digit and by 1-Digit Numbers on the Number Line!

In this learning resource, you will have the opportunity to enjoy and successfully achieve relevant competencies at your own pace.

This module offers fun and meaningful opportunities for both guided and independent learning. You will engage with the material and become an active participant in your learning journey.

This module has the following parts and corresponding icons:

	What I Need to Know	This gives you an idea of the skills or competencies you are expected to learn in the module.
	What I Know	This part includes an activity that aims to check what you already know about the lesson to take. If you get all the answers correctly, you may decide to skip this part.
	What's In	This is a brief drill or review to help you link the current lesson with the previous one.
	What's New	In this portion, the new lesson is introduced to you in various ways such as through a story, a song, a poem, a problem opener, an activity or a situation.
	What is It	This section provides a brief discussion of the lesson. This aims to help you discover and understand new concepts and skills.
	What's More	This comprises activities for independent practice to concretize your understanding and skills about the topic. You may check the answers to the exercises using the Answer Key at the end of the module.

	What I Have Learned	This includes questions or blank sentence/ paragraph to be filled in to process what you learned from the lesson.
	What I Can Do	This section provides an activity which will help you transfer your new knowledge or skill into real life situations or events.
	Assessment	This is a task which aims to evaluate your level of mastery in achieving the learning competency.
	Additional Activities	In this portion, another activity is given to you to enrich your knowledge or skill of the lesson learned. It also ensures retention of learned concepts.
	Answer Key	This contains answers to all activities in the module.

At the end of this module, you will also find:

References	This is a list of all sources used in developing this module.

The following are some reminders in using this module:

1. Use the module with care. Avoid unnecessary mark/s on any part of the module. Use a separate sheet of paper in answering the exercises.
2. Answer *What I Know* before moving on to the other activities included in the module.
3. Carefully read the instructions before doing each task.
4. Observe honesty and integrity in doing the tasks and in checking your answers.
5. Finish the task at hand before proceeding to the next.
6. Return this module to your teacher/facilitator once you are through with it.

If you encounter any difficulty in doing the tasks in this module, consult your teacher or facilitator. Always bear in mind that you are not alone. We hope that through this material, you will experience meaningful learning and gain a deep understanding of the relevant competencies.

For the facilitator

Welcome to the Mathematics Grade 2 Self-Learning Module on Illustrating Addition of 2-Digit and by 1-Digit Numbers on the Number Line!

The Curriculum Implementation Division (CID) through the Learning Resource Management Section (LRMS) launched this module in cooperation with the Division's Teacher Developers, Learning Resource Evaluators (LREs), Information and Technology Officer, and subject matter experts in Mathematics and English. This has been especially developed, quality-assured, and validated to enable you to help the learners overcome their educational obstacles—personal, social, and economic—while meeting the standards outlined in the MATATAG Curriculum.

This learning resource hopes to engage the learners in guided and independent learning activities. It further aims to help them acquire the needed 21st century skills while taking into consideration their needs and circumstances.

As a facilitator, you are expected to orient the learners on how to use this module. You also need to keep track of their progress while allowing them to manage their learning. In addition, you are enjoined to encourage and assist the learners as they do the tasks contained in the module.

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MATHEMATICS
Quarter 1 - Module 8
Illustrate Addition of 2-Digit and by 1-Digit Number on the Number Line

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What I Need to Know

The module contains activities on illustrating addition of 2-digit and by 1-digit numbers as "counting up" on the number line.

After going through this module, you are expected to illustrate addition of 2-digit and by 1-digit numbers as "counting up" on the number line.

Lesson 1 - Illustrate Addition of 2-Digit and by 1-Digit Numbers using Number Line

What I Know

Directions: Add using number line. Choose the correct answer for each problem.

Example:

c. 53 + 5 = _____

    a. 28

    b. 38

    c. 58

    d. 62
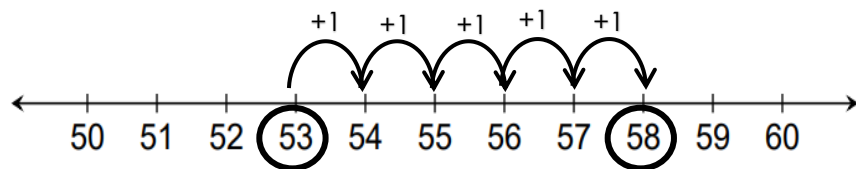
+1 +1 +1 +1 +1
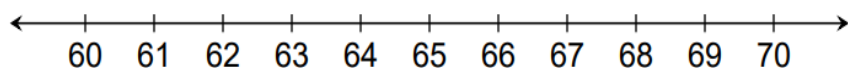
50 51 52 53 54 55 56 57 58 59 60

1.) 68 + 2 = _____

    a. 76

    b. 74

    c. 70

    d. 68

60 61 62 63 64 65 66 67 68 69 70

2.) 88 + 2 = _____

    a. 86

    b. 89

    c. 90

    d. 92

80 81 82 83 84 85 86 87 88 89 90

3.) 46 + 3 = _____

    a. 44

    b. 49

    c. 57

    d. 59

40 41 42 43 44 45 46 47 48 49 50

4.) 53 + 4 = _____

    a. 57

    b. 67

    c. 77

    d. 87

50 51 52 53 54 55 56 57 58 59 60

5.) 51 + 8 = _____

    a. 59

    b. 58

    c. 57

    d. 49

50 51 52 53 54 55 56 57 58 59 60
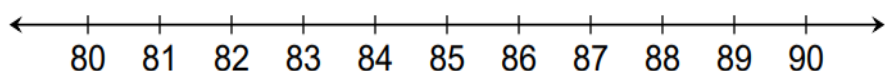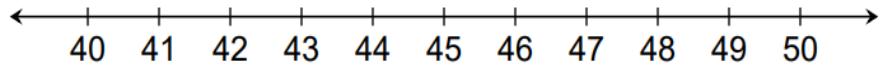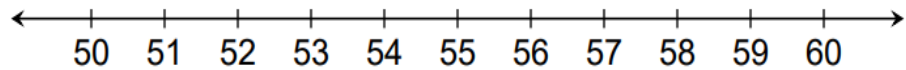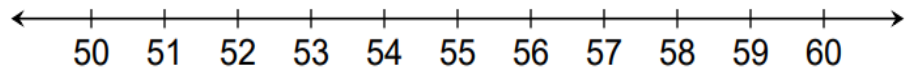
👨‍🏫 What's In

Let us review the idea of place value that you have learned in the previous lessons by answering the following questions. Choose your answers from the box.

842	6	hundreds	ones	1

1. What is the value of the digit "6" in the number 635? _____

2. In the number 562, which digit is in the tens place? _____

3. What is the place value of the digit "7" in the number 347? _____

4. Write the number that has 8 hundreds, 4 tens, and 2 ones. _____

5. How many tens are there in the number 918? _____

What's New
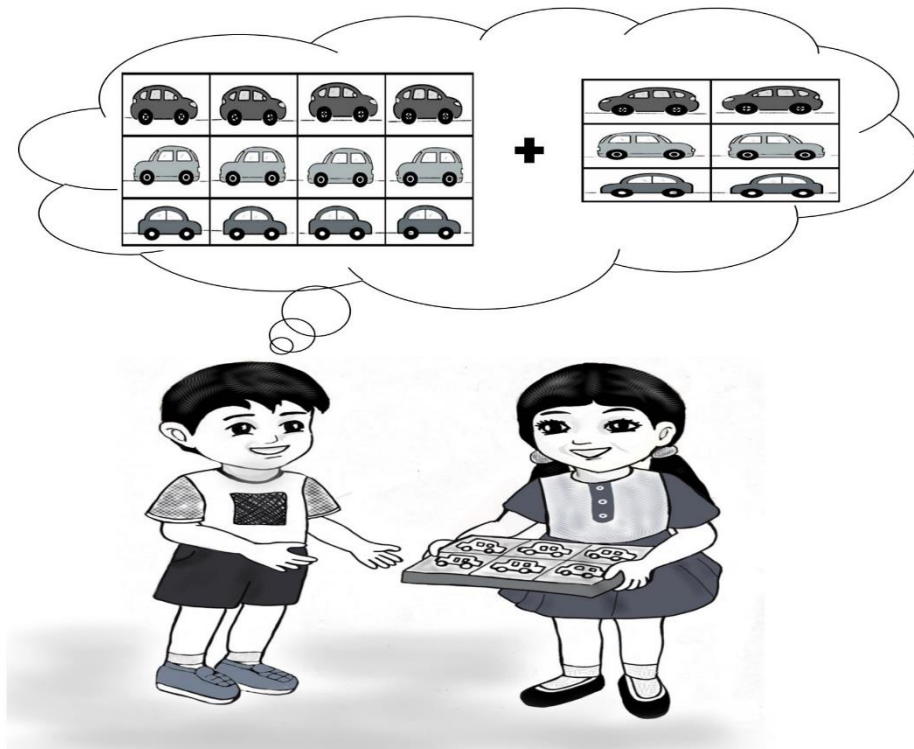
Yoan has 12 toy cars in his collection. His friend, Joyce, gave him 6 more toy cars for his birthday. How many toy cars does Yoan have now?

Answer the following questions.

How many toy cars did Yoan start with?

How many toy cars did Joyce gave to Yoan?

What operation do we need to use to find out how many toy cars Yoan has now?

🧒 What is It

Hi there, Math explorer! Today, you are going on a number line adventure! Let us meet our new friend: the number line! It helps us add easily.

A **number line** is a visual representation of numbers on a straight line where the value of the numbers increases as we move from left to right.

What is Addition on a Number Line?

Addition on number line is simply counting positive numbers by moving towards the right-hand side of a number line. It helps us to visually perform the addition operation on small numbers.

Example:

Find the sum of 12 and 6 using number line.

Solution:

Let us find the sum of 12 and 6 by performing addition on a number line. Let us look into the steps given below.

Step 1: Consider number 12 as the starting point on the number line. In order to perform 12 + 6, mark 12 on the number line.
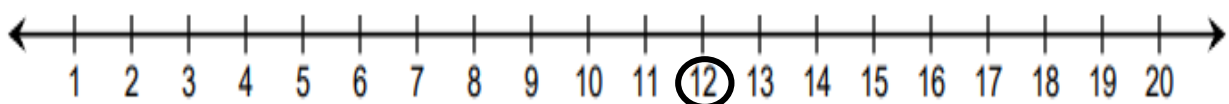
Step 2: From the first number, jump by the number of units equivalent to the second number towards the right. This is because the values on a number increase as we move towards the right-hand side. In this case, we are adding 12 + 6, therefore, we will move 6 steps to the right. This will bring us to number 18. So, 12 + 6 = 18.
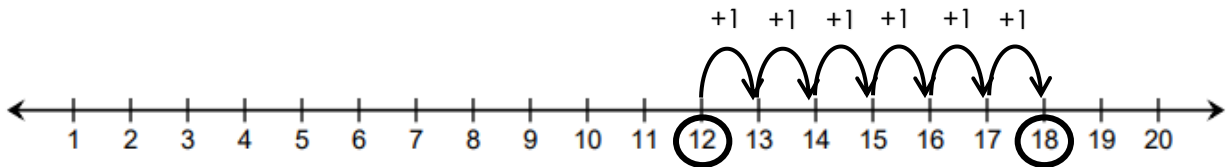
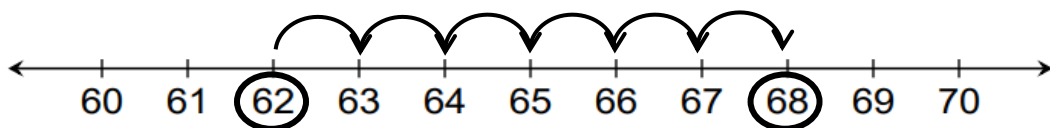We started marking 12 on the number line. Then, we moved towards the right by 6 units and we reached 18.
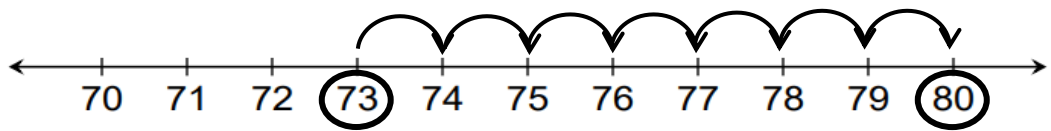
Thus, we get the result, 12 + 6 = 18.

What's More

The number line makes adding fun and easy. Now, it's your turn to analyze the number line. Draw a ☺ happy face if the number line shows the correct illustration of the given addition sentence and ☹ sad face if it is not.

_____ 1. 62 + 6 = **68**

_____ 2. 73 + 7 = __80__

```
←———|————|————|———(73)—|————|————|————|————|————(80)—|———→
     70   71   72   73   74   75   76   77   78   79   80
```

_____ 3. 80 + 4 = __84__

```
←———(80)—|————|————(84)—|————|————|————|————|————|———→
     80   81   82   83   84   85   86   87   88   89   90
```

_____ 4. 90 + 5 = __95__

```
←———(90)—|————|————|————|————(96)—|————|————|————|———→
     90   91   92   93   94   95   96   97   98   99  100
```

_____ 5. 60 + 6 = __66__

```
←———(50)—|————|————|————|————(56)—|————|————|————|———→
     50   51   52   53   54   55   56   57   58   59   60
```
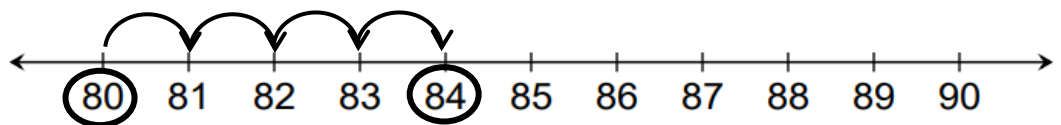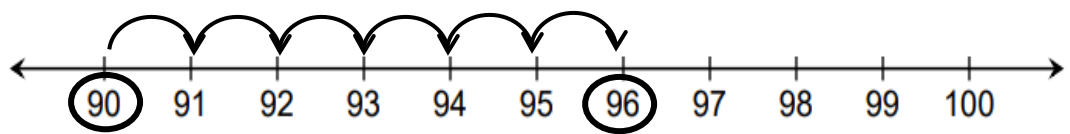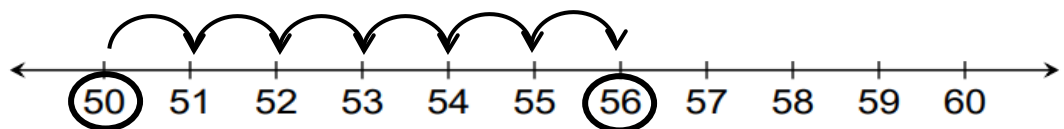
💡🧑 What I have learned

Complete the sentences below. Write your answers on your answer sheets.

number line	addition
straight	right	numbers

A (1)_____ is a visual representation of numbers on a (2)_____ line where the value of the numbers increases as we move from left to (3)_____.

Addition on number line is simply counting positive (4)_____ by moving towards the right-hand side of a number line. It helps us to visually perform the (5)_____ operation on small numbers.

🖌️ What I can do

You are adding numbers like an expert! Keep practicing your jumps! Illustrate the addition by drawing jumps on a number line and complete the addition sentences.

Example:

57 + 5 = 62

1. 11+3 = ____

```
← | | | | | | | | | | | | | | | | | | | | →
  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
```

2. 20+8 = ____

```
← | | | | | | | | | | | | | | | | | | | | →
  20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

3. 56+6 = ____

```
← | | | | | | | | | | | | | | | | | | | | →
  50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
```

4. 77+9 = ____

```
← | | | | | | | | | | | | | | | | | | | | →
  70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90
```

5. 83+7 = ___

```
← | | | | | | | | | | | | | | | | | | | | →
  70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90
```
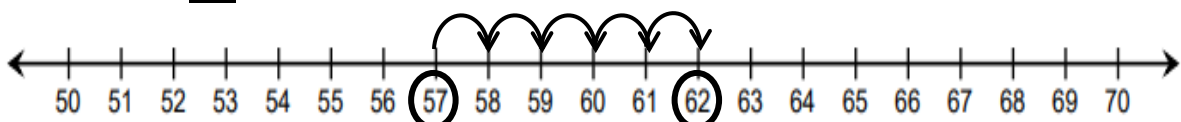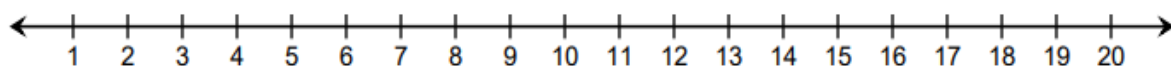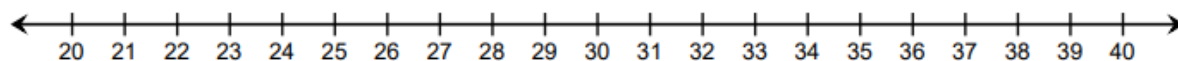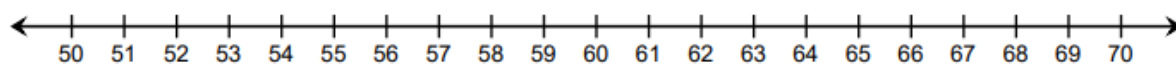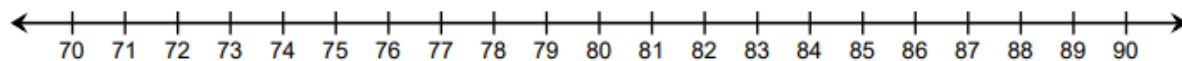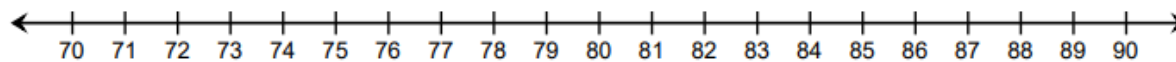
Assessment

Directions: Add the following. Illustrate it by using the number line.

1. 48 + 9 = [   ]

2. 74 + 8 = [   ]

3. 83 + 7 = [   ]

4. 91 + 6 = [   ]

5. 67 + 3 = [   ]

Additional Activities

Directions: Illustrate the number sentence of the given problem in a number line and give the answer.
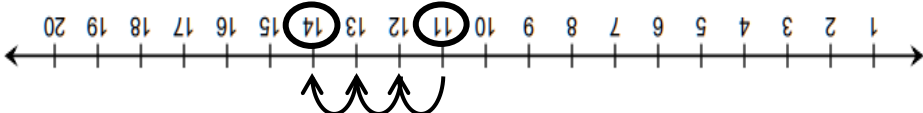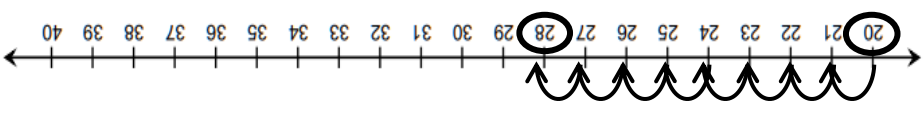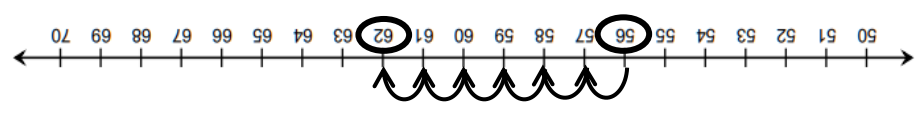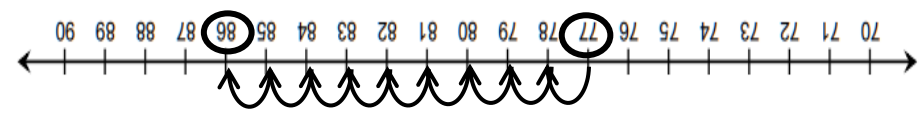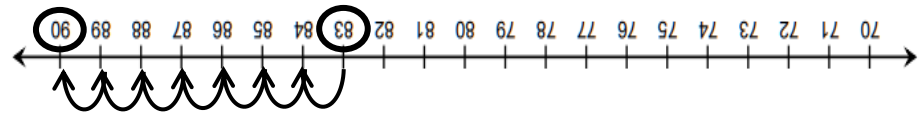
A library had 33 Math books on a shelf. They added 6 more books to the shelf. How many books are on the shelf now?
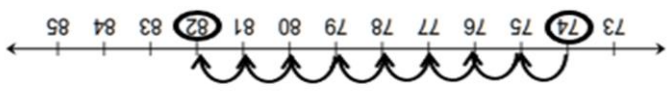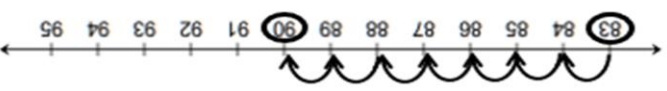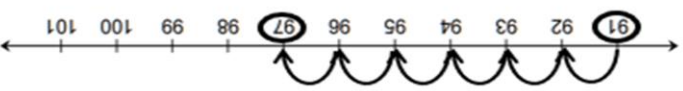
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
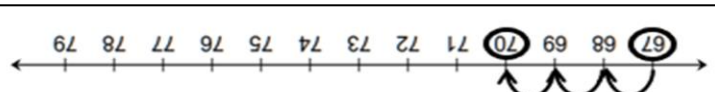
Answer Key

What I Have Learned
1. Number line
2. straight
3. right
4. numbers
5. addition

What's More
1. 😊
2. 😐
3. 😊
4. 😐
5. 😊

What's In
1. hundreds
2. 6
3. ones
4. 842
5. 1

What I Know
1. c
2. c
3. b
4. a
5. a
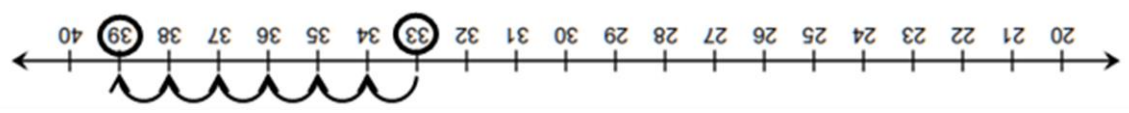
What I Can Do

1. $11+3=\underline{14}$

2. $20+8=\underline{28}$

3. $56+6=\underline{62}$

4. $77+9=\underline{86}$

5. $83+7=90$

Assessment

1. $48 + 9 = \boxed{57}$

2. $74 + 8 = \boxed{82}$

3. $83 + 7 = \boxed{90}$

4. $91 + 6 = \boxed{97}$

5. $67 + 3 = \boxed{70}$

Additional Activity

References

Addition on number line - Steps, examples | Adding on a number line. (n.d.). Cuemath. https://www.cuemath.com/numbers/addition-on-number-line/

DISCLAIMER

This Self-learning Module (SLM) in **MATHEMATICS 2 Quarter 1 Module 8** titled **"Illustrate Addition of 2-Digit and by 1-Digit Numbers on the Number Line"** was developed by SDO Tacurong with the primary objective of preparing for and addressing the demands of the MATATAG Curriculum. Contents of this module were based on DepEd's Learning Competencies anchored on the MATATAG Curriculum. This is a supplementary material to be used by all learners of Tacurong City in all public schools beginning SY 2024-2025. The process of LR development was observed in the production of this module. This is version **1.0**. We highly encourage feedback, comments, and recommendations.