



MISSISSIPPI

EXEMPLAR

Units & Lessons

MATHEMATICS

Grade 1

Grant funded by:



Lesson 2: Add and Subtract with a Pirate

Focus Standard(s): 1.OA.6

Standards for Mathematical Practice: SMP.3, SMP.4

Estimated Time: 70 minutes

Resources and Materials:

- Clipboards (or books/folders)
- Crayons
- Gold coin counters or other counters for remediation
- Gold Coin equation cards
- Pencils
- Handout 2.1: Addition Treasure Hunt Recording Sheet
- Handout 2.2: Gold Coin Cards
- Handout 2.3: Add with a Pirate
- Handout 2.4: Add with a Pirate Addition Homework
- Add with a Pirate https://www.youtube.com/watch?v=WT_wvvEvkw4

Lesson Target(s):

- Students will use addition and subtraction to solve problems within 10.
- Students will determine the unknown whole number in addition and subtraction equations relating to three whole numbers.
- Students will justify the reasonableness of an answer and explain their strategies.

Guiding Question(s):

- What different ways can we show sums of 10?
- What does the equal sign mean?

Vocabulary

Academic Vocabulary:

- Addition
- Compare
- Difference
- Minus
- Reasonable
- Subtraction
- Sum
- Total

Instructional Strategies for Academic Vocabulary:

- Introduce words with student-friendly definitions and pictures
- Model how to use the words in discussion
- Discuss the meaning of word in a mathematical context
- Create pictures/symbols to represent words
- Write/discuss using the words
- Act out the words or attach movements to the words

Symbol

Type of Text and Interpretation of Symbol



Instructional support and/or extension suggestions for students who are EL, have disabilities, or perform well below the grade level and/or for students who perform well above grade level

✓

Assessment (Pre-assessment, Formative, Self, or Summative)

Instructional Plan

Understanding Lesson Purpose and Student Outcomes:

Students will practice solving addition and subtraction problems within 10, explain their strategies used, and justify the reasonableness of their answers.

Anticipatory Set/Introduction to the Lesson: Add and Subtract Like a Pirate

Have students sing along with Video "[Add with a Pirate.](#)"

Activity 1: Vocabulary

Students pull out their personal dictionaries completed from the previous lesson. Review the vocabulary terms with the students before the lesson. Place the words on the word wall for students to use later in the unit.

Activity 2: Addition Treasure Hunt

Print and cut out **Handout 2.2: Gold Coin Cards** and hang them around the room. Distribute **Handout 2.1: Addition Treasure Hunt Recording Sheet**, a clipboard, and a pencil to each student.

Tell the students, "You are going on a treasure hunt just like a pirate. You will walk around the room to search for addition treasure cards. Each card has a letter on it that matches a space on your recording page. When you find one, fill in the matching spot on your recording page. For example, (hold up one card) What letter does this have on it? (D) Now find the space on your recording page that has a 'D' on it. You will write this number sentence in that space. What number sentence will we write in the 'D' space on your recording page? ($6 + 4 = 10$) Don't forget to write the sum of your addends." Demonstrate with the D card for the class. Make sure all students understand.

Student will search the room for cards with gold coins. When students find a card, they write the equation and sum represented by the number of coins on the card in the correct space on the recording sheet.

Students add coins from cards hanging around the classroom, compare their answers with a partner and make any changes in their work. If an answer is different, they will work the problem together to find the correct answer. If students disagree on an answer, they must draw a picture to justify why their answer is correct (SMP.3).

Review each coin card and have students check their work.

For students who are EL, have disabilities, or perform well below grade level:

- Provide gold coins for the students to use (SMP.4).
- While students are working, work with students who need remediation. Use objects for students to create the number sentences and count to find the sum (SMP.4).

Extensions for students with high interest or working above grade level:

- Provide problems like: First Mate Penny has 4 jewels. If she puts her jewels with Peg Leg Sam and Captain Hook's jewels, will they have enough jewels to fill a treasure chest that holds 16 jewels? How do you know?
- Allow early finishers to work on illuminations.nctm.org/searchsums to practice addition skills or play the games listed in Lesson #1.

Activity 3: Independent Practice

Distribute **Handout 2.3: Add with a Pirate**. Tell students they will work independently to practice addition facts within 10 with a color-by-number picture of a pirate.

T: Find all the sums for the addition equations. When you get the sum, follow the directions to color the parts of the pirate that match that sum. For example, what is the sum of $1 + 1$? (2) So everywhere there is a 2 on the pirate, you will color it what color? (dark blue).”

For students who are EL, have disabilities, or perform well below grade level:

- Provide gold coins for the students to use (SMP.4).
- While students are working, work with students who need remediation. Use objects for students to create the number sentences and count to find the sum (SMP.4).

Extensions for students with high interest or working above grade level:

- Allow early finishers to work on illuminations.nctm.org/searchsums to practice addition skills or play the games listed in Lesson #1.

Reflection and Closing: Around the World

- Use the Coin Cards from the Addition Treasure Hunt and play “Around the World” with whole class. Choose a place to start. That student stands next to the next student who remains seated. Hold up one Coin Card. The first student who says the correct sum wins and moves to the next student. If the loser was the person standing, that person sits in the desk of the student who had been sitting. Continue until one student makes it all Around the World (room) back to the place they

Homework











Distribute **Handout 2.4: Add with a Pirate Addition Homework** and tell students to complete the addition homework practice.

Name _____ Date _____



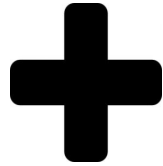
Handout 2:1: Addition Treasure Hunt Recording Sheet

Find the Gold Coin cards in our room. Match the letter on the Gold Coin card to the space on your recording sheet. Write the addition equations below in the correct space.

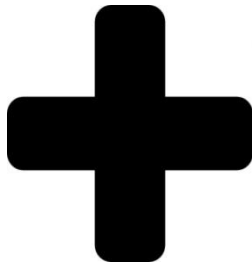
A 	B 
C 	D 
E 	F 
G 	H 
I 	J 

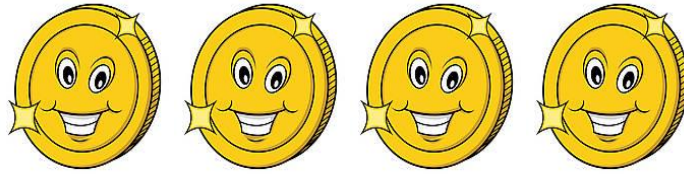
Handout 2:2: Gold Coin Cards

A

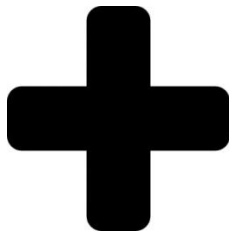
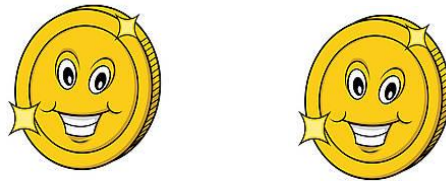


B

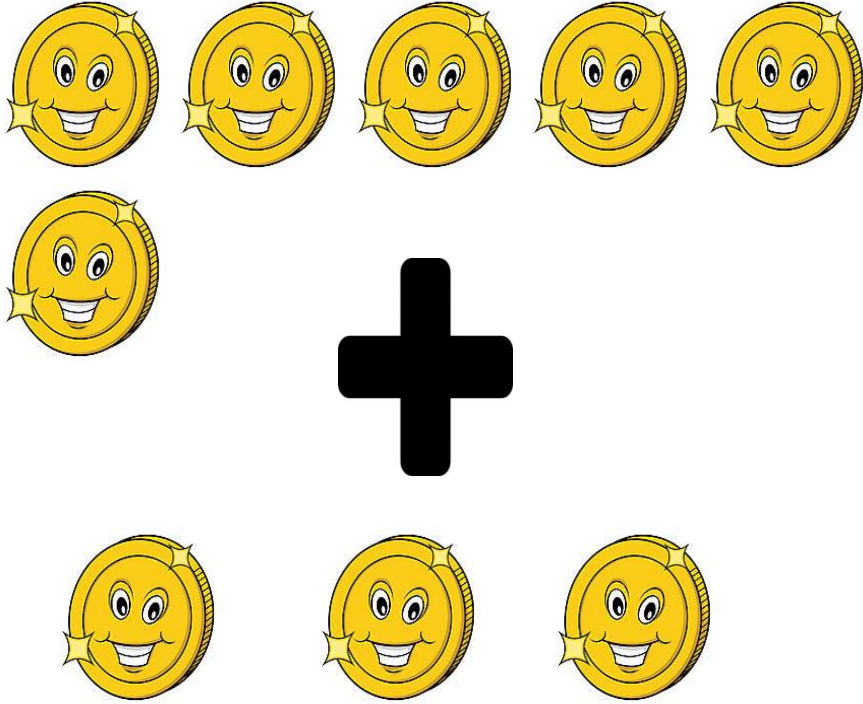




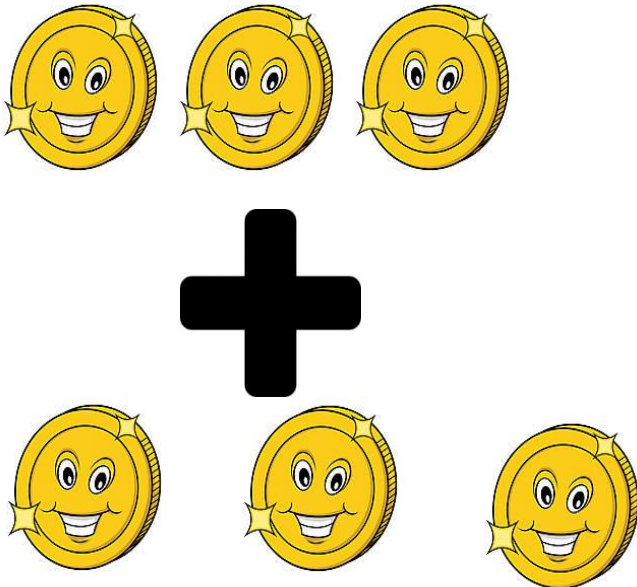
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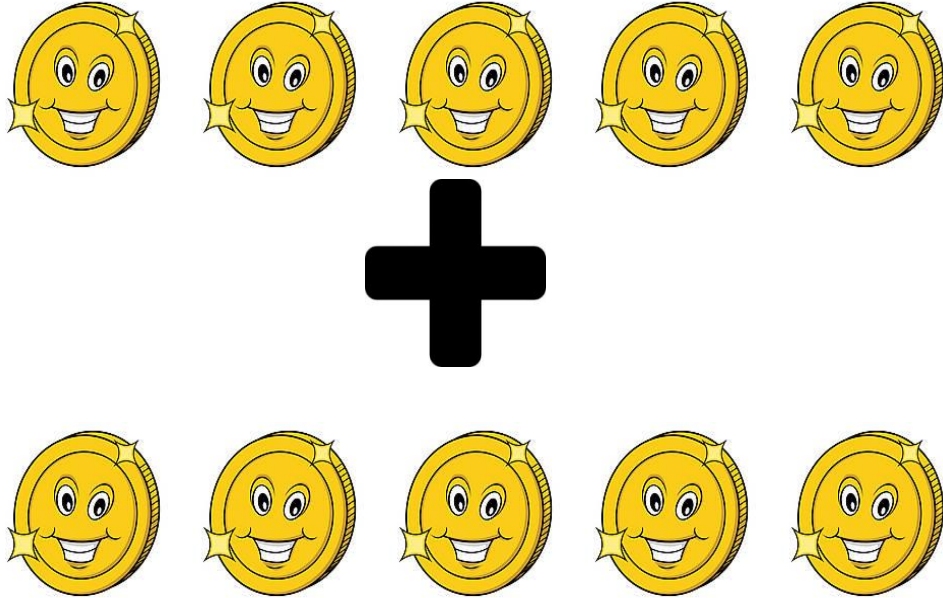
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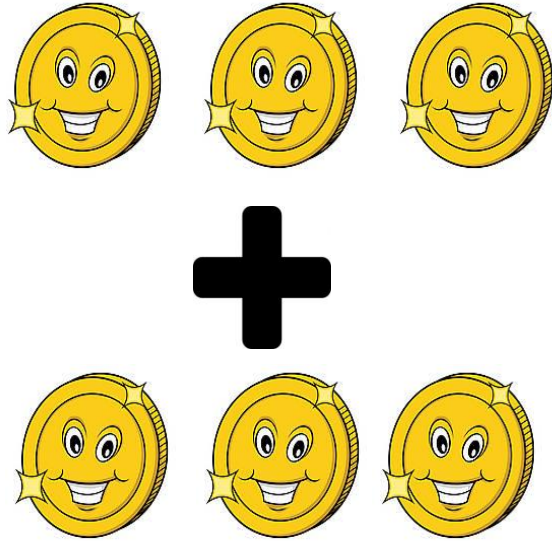
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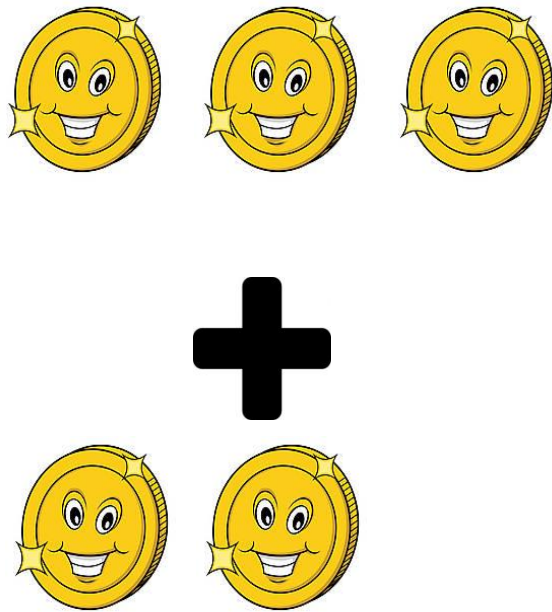
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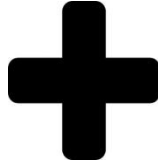
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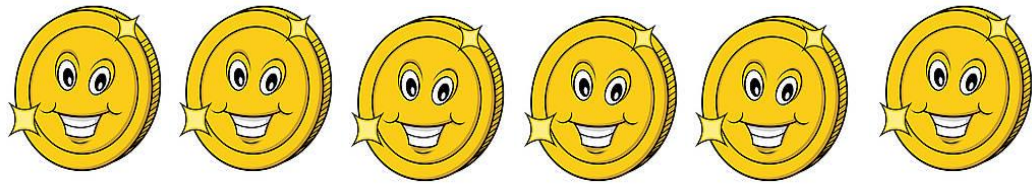
H













1



J

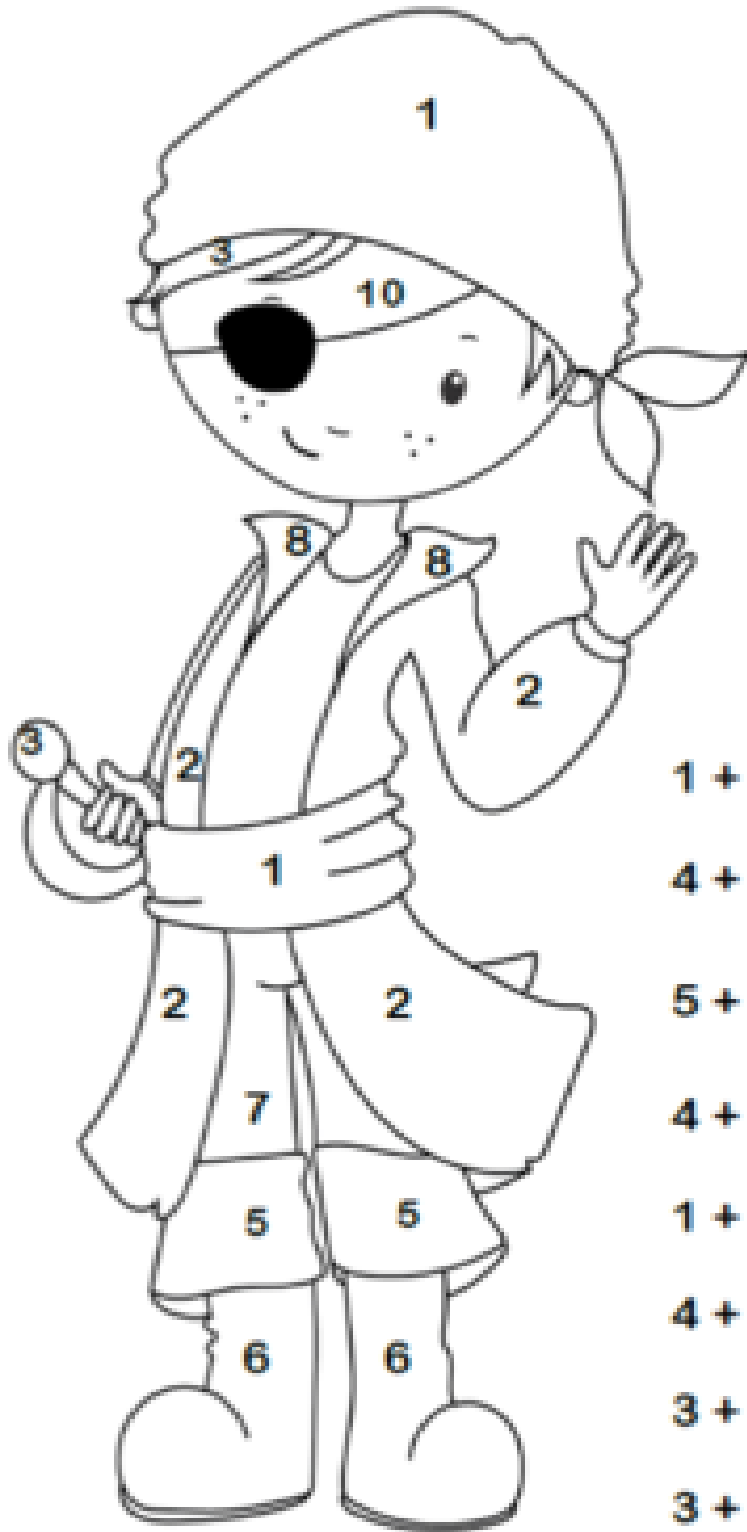


Handout 2:1: Addition Treasure Hunt – Answer Key

 <p>A</p> $5 + 3 = 8$	 <p>B</p> $4 + 4 = 8$
 <p>C</p> $2 + 7 = 9$	 <p>D</p> $6 + 4 = 10$
 <p>E</p> $3 + 3 = 6$	 <p>F</p> $5 + 5 = 10$
 <p>G</p> $3 + 7 = 10$	 <p>H</p> $3 + 2 = 5$
 <p>I</p> $2 + 5 = 7$	 <p>J</p> $3 + 6 = 9$

Name _____ Date _____

Handout 2.3: Add with a Pirate



$1 + 1 = \underline{\quad}$ dark blue

$4 + 4 = \underline{\quad}$ light blue

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

$4 + 3 = \underline{\quad}$ black

$1 + 0 = \underline{\quad}$ red

$4 + 1 = \underline{\quad}$ dark brown

$3 + 3 = \underline{\quad}$ light brown

$3 + 0 = \underline{\quad}$ yellow

Handout 2.4: - Add with a
Pirate Addition Homework

Addition!



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Name _____

Date _____

For training or questions regarding this unit,
please contact:

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