

Welcome! Learning how to implement a Math Push-Ups Book is pretty easy. Look over your book and its materials before reading these directions. Skim the blue instruction pages, read the Over view page, and watch the five minute video via www.tutorialcenteraugusta.com. Good Luck!

- Each book contains nine lessons
- Each lesson is made of up of four parts - each reinforced by the *Five Finger Study Plan*.

Part 1: The Learning Tips Page

1. Use pencil. Begin work at the top of each page. Always work from left to right.
2. Students must learn (be taught) to **routinely circle** difficult facts or facts that take a long time to answer AS they completes the Tips page.
3. The student self corrects the Tips page.

HOW TO SELF CORRECT:

1. Fold the bottom of the Tips page up to reveal the Answer Key.
2. The student points to his answer with his pencil as he touches the Answer Key's answer with his other hand. The student simultaneously moves pencil and other hand to next answers.
3. **Circle** any facts that have wrong answers.
4. Erase and correct each wrong answer. Don't erase ANY circles.
5. Study all of the circled facts by following the **Five Finger Study Plan**.

Using the Five Finger Study Plan (to study circled facts)

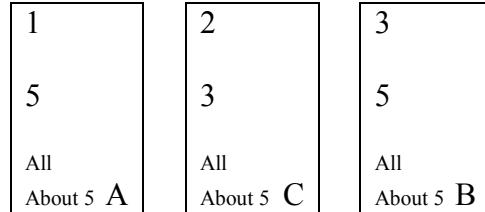
1. Tear out Study Mat and flip to the back. Read the Fiver Finger Study Plan's directions aloud with student.
 - Talk about the plan and it's five steps. Use fingers, handy mnemonics, while reviewing the five steps.
 - Student has completed steps one and two after completing the Learning Tips page.
 - Student discovered what he already knows; all the facts he didn't circle. Raise one finger.
 - Student has identified what he needs to learn. Raise two fingers
 - Congratulate your student. He only needs to learn the circled facts.
2. Student's study begins by studying just two circled facts.
 - Have student say the first fact and its correct answer quietly to herself; She repeats, "6 x 5 equals 30" over and over.
 - She adds a second fact. Repeats over and over "30 divided by 5 is 6."
 - Teach student to **Look** at the complete fact and answer.
 - Teach student to **listen** to fact and the correct answer.
 - Teach student to close her eyes and **imagine** the fact and its answer.
3. Student adds a third fact, covers its answer and says the fact to her.
 - Teach student to review all three facts. Add a third finger.
 - Do step four: Add a fourth fact to study and then review all four. Add a forth finger.
4. Study the rest of your circled facts this way. (**Learning Tips** study is finished. High five fingers.)
5. **FOR PRACTICE WORKSHEET PART II**. Erase the whole practice page and do again. Your goal is to complete the page without having to circle any facts. High Five Fingers.

Part 2: The Practice Worksheet

1. Slip the Plastic Slip Cover up and over the Practice Worksheet.
2. Use the dry erase marker. Begin work at the top of the page. Work from left to right.
 3. The student must **ALWAYS CIRCLE** the difficult or slow facts while completing the page.
 4. The student self corrects and follows the Five Finger Study Plan to study the circled facts.
5. The student will complete the Practice Worksheet as many times as needed to achieve the goal.
 - **The goal** is to complete the Practice Worksheet without having to circle any facts.
6. The students alternates efforts between the Practice Worksheet and the Fact Cards.

Part 3: Facts Cards for *THE ADDITION AND SUBTRACTION BOOK*

1. Tear out Fact Card page. Cut apart the cards.
2. Spread the cards out, face side down, on the desk. Numerically order cards.
3. Each card's number order is the top number. — →
4. Stack card # 2 on top of card # 1. Stack card # 3 top of card on # 2, etc.

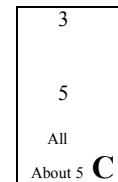


HOW TO **FLIP** THE FACT CARDS

1. Stack the ordered deck, face side up. →
2. Put the deck in the palm of your left (non-dominant), hand.
3. Say the answer to the first fact as your left thumb pushes the card into your right hand.
4. The right hand flips the card over to reveal the card's answer.

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

The answer is the middle number on the back. →



FIRST GOAL: Correctly answer all Fact Cards in one minute.

After achieving the fact card's one minute goal, the student is ready to play the **Mini Match'Em Game** on her desk.

Mini Match 'Em Game

The object is to match a lesson's addition fact cards to their inverse subtraction fact cards in a minute.

1. Line the subtraction cards in a row.
2. Line the addition cards 6 inches underneath.
3. Take a pencil's eraser and *DRIVE* the subtraction card to its related addition card.
4. First, complete the match in one minute. Next, complete the match in 30 seconds!

$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$
$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$

Check your work. Turn the cards over to see if the capital letters match.

3
4
All
About 5 D

← Answer

store

Students paper clip and

completed sets of Fact Cards in a small zip lock baggie to be used in the FLIP IT game.

7
8
All
About 5 D

← Answer

SECOND FACT CARD GOAL:

Student WILL flip the Fact Cards in 30 seconds.

Use of the STUDY MAT will help student achieve this goal. See detailed directions that follow.

Using the Study Mat:

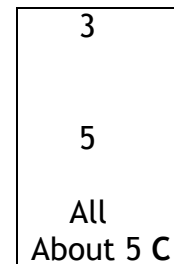
1. Put a single stack of Fact Card, face side up, into non dominant palm.
 2. Student says the answer while flipping the card over to reveal the answer on the card's back center.
 3. Students' fast and easily answered fact cards are flipped onto the EASY/FAST side of the Study Mat.
 4. Cards whose answers are unknown or difficult for student to answer are placed into the HARD/SLOW side of the study mat.
- Help student distinguish FAST from SLOW, HARD from EASY. Monitor and coach their decisions.

Student follows the Five Finger Study Plan found on the back of the Study Mat to study the **Hard facts.**

Part 3 Fact Cards for the *MULTIPLICATION AND DIVISION BOOK*

1. Tear out the Multiplication Fact Card page.
2. Cut apart the 12 cards.
3. Stack the 12 cards, in random order, face side up, into your left (non dominant) hand.
4. Say the answer to the first fact as your left thumb pushes the card into your right hand.
6. The right hand flips the card over to reveal the card's answer.

The answer is the middle number on the card's back. →



The Student uses the Study Mat to separate their Hard /Slow facts from the facts they already know.

FIRST GOAL:

- Flip and correctly answer all 12 **Multiplication** Fact Cards in one minute.
- Students store paper clipped completed sets of fact cards in small zip lock baggie to be used in the FLIP IT game.

SECOND GOAL:

- Cut out and correctly answer all 12 **Division** Fact Cards in one minute. Keep card sets separate.

When one minute goals are achieved with both sets of cards, the student is ready to

Play the Mega Match'Em Game on his desk.

GOAL of Game: to match the multiplication fact cards to their related division fact cards in one minute.

1. Randomly line up the 12 multiplication fact cards.
2. Randomly line the 12 division fact cards 6 inches beneath.
3. Take a pencil's eraser and *DRIVE* the multiplication cards to its related division fact card.
4. Check for accuracy by flipping cards over to see if capital letters match.
5. Correctly complete the 12 matches in one minute.

Student is a Mega Winner!

PART IV The Timed Worksheet

1. Pull the re-usable plastic slip cover up and over the Timed Worksheet.
2. **GOAL:** Complete the Timed Worksheet in one minute with one or no mistakes as an adult watches.
3. Adult corrects the Timed Worksheet. Answer Keys are in back of book.
 - Student will revisit the Practice Worksheet and Fact Cards if unable to pass the Timed Worksheet.
4. Adult signs the Student Record Sheet if the student achieves the goal.

The Student is ready to begin the next lesson after:

1. **Beating the 30 second timer with each set of Fact Cards**
2. **Completed the Timed Worksheet in one minute with one or no mistakes.**

PLAY THE FLIP IT! GAME.

- This game is fun AND serves as an excellent fact review.
 - Students profit best when provided practice time to prepare for this fun event!
 - Encourage students to use the **Study Mat** as they review!!!
 - Two students or multiple groups of team players can participate.
1. Students retrieve their completed fact cards from their zip lock baggie.
 2. Students organize and paper clip random fact cards into groups of 10.
 3. Each student gets a minute to flip and correctly answer as many fact cards as they can in one minute.
 4. Players can have multiple turns.
 5. An adult watches and counts the number of correct facts and adds students' points to each team's score.
 6. The team with the most points wins!