Topics Covered

- ✓ **Counting**
- ✓ **Patterns**
- ✓ **Place Value**
- ✓ **Addition & Subtraction Facts**

Teaching Tip: *This week will focus on "Show your work" strategies consisting of the topics mentioned above. Some tips on these topics are provided. The tips are meant to be used as an aid to jog the students' memory. They are not meant to be taught. The example sheet is formatted like an index.*
Work all the Practice problems with the students showing tips as needed. Make sure to explain how to use the "show your work" space for each question.

Strategy: **Make sure you show your work for every problem. Showing your work will help you go through the step-by-step process of solving problems rather than solving them in your head. Even if a question doesn't ask for it, it is always a good idea to show your work. This is a good practice to get into a habit of doing because many times, you can still get credit for showing your work, even if the final answer is wrong. Showing your work is also helpful for finding any mistakes that may have been made.**

Note: Point values:
1) Questions with "Show your work" are 1/2 point each.
2) When asked, in questions with Parts (A, B, etc.), "Show your work" is worth 1 point.

Read the directions for each problem carefully. Number of points will vary by question. Write your answers in the box where it is provided. In others, make sure you fill the bubbles correctly.

Correctly filled bubbles: ⬤ correct   ◉ incorrect   ◉ incorrect

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Practice 1A: Fill in the missing number.

55   65   ____   85   95   105   ____

Practice 1B: Show your work.

Tip: Filling in the missing number is a common *counting* problem. To find the missing number, find the pattern by which the numbers increase or decrease. Then, use counting skills to fill in the missing numbers.

Example: Find the missing number:

12   14   16   ___   20   ___   24

We can use the numbers that are given to figure out that the pattern is counting by 2s. The missing numbers are **18** and **22**.

Strategy: **When counting by 5s, the ones place will always be one of two numbers.**
For example: _3_, _8_, 1_3_, 18, 2_3_...
**   or _2_, _7_, 1_2_, 1_7_, 2_2_...**
When counting by 10s, the ones place will always be the same number.
For example: _1_, 1_1_, 2_1_, 3_1_...

Practice 2A: Complete the pattern:

Ss   Tt   Uu   Vv   ____   ____   ____

Practice 2B: Show your work.

Tip: Completing patterns is when you are given the beginning of a pattern and asked to finish the rest. The first step in completing a pattern is recognizing the pattern given to you.

Example: Complete the pattern:

BB   DD   FF   HH   ____   ____   ____

This pattern starts with the BB and goes to DD. It then goes to FF and then HH. From this, we can figure out that the pattern is skipping letters. It skips CC, EE, and GG.

To complete the pattern, we have to skip letters after HH. Skip II, so the next element of the pattern is JJ. Then find the last two elements of the pattern.

BB   DD   FF   HH   JJ   LL   NN

Practice 3A: Calculate the following number.

2 tens 3 ones + 7 tens 4 ones

Strategy: *It is useful to make a table with tens and ones to visualize your number.*

Tip: Remember, we have three different ways of writing numbers: word form, expanded form, and *place value* form.

Example: Write the following number in the three different ways:

86

Tens	Ones
8	6

Word form: Eighty-six

Expanded form: 80 + 6

Place value form: 8 tens 6 ones

Practice 3B: Show your work.

Practice 4A: Which addition or subtraction facts are part of the fact family? Bubble all that apply.

$$52 + 13 = ?$$

- ○ A) $65 – 52 = 13$
- ○ B) $65 – 13 = 52$
- ○ C) $65 + 13 = 78$
- ○ D) $39 + 13 = 52$

Practice 4B: Show your work.

Tip: When finding addition and subtraction facts, do the following:
- First solve the problem given.
- Then, using only the three numbers in the problem, write the other three facts.
- Find the addition or subtraction fact that fits the problem.

Example: Which addition or subtraction fact is part of the family?

$$24 + 15 = ?$$

- ○ A) $39 + 15 = 54$
- ○ B) $24 – 15 = 9$
- ○ C) $39 – 24 = 15$
- ○ D) $39 + 24 = 63$

First solve the first problem given to you: $24 + 15 = 39$

Now that we know 39 is the 3rd number, we can only use 24, 15, and 39 in our addition and subtraction facts. This means **C is the answer**.

Practice 5-7: Josh cut four apples into 8 slices each. Show the pattern for how many slices he cut total. How many slices did he cut total? Draw a picture to show your work.

Pattern:

Total slices: _____