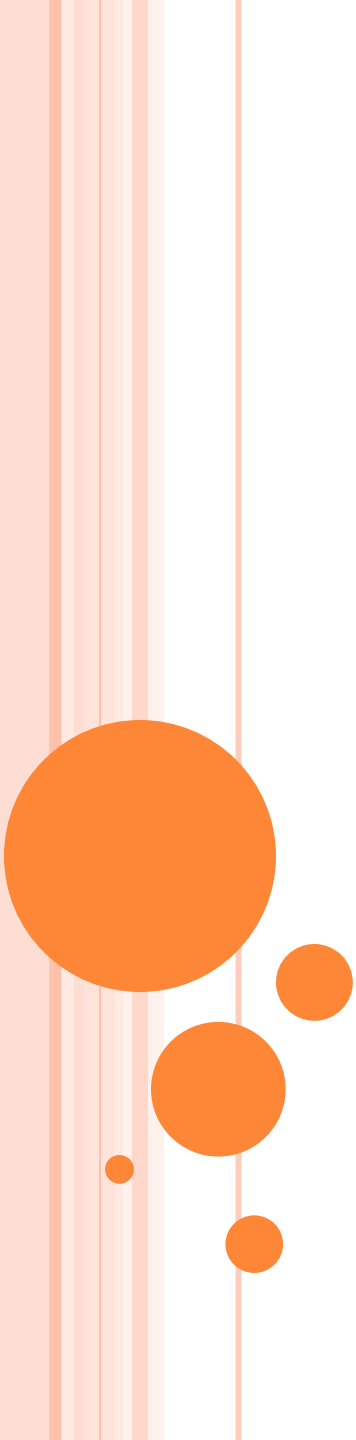


Do Now: PLEASE FILL OUT THE FOLLOWING PLACE VALUE TABLE TO SHOW THE NUMBER 342 IN AS MANY DIFFERENT WAYS AS YOU CAN.

Hundreds	Tens	Ones
3	4	2





CREATING FLEXIBLE MATHEMATICIANS THROUGH FLUENCY AND PROBLEM SOLVING!

Have a question?

Jot it on an index card and hand it in on
your way out. Questions will be answered
on the PS 11 website soon!

Presented by Sharone Blonder
and Deborah Forschein

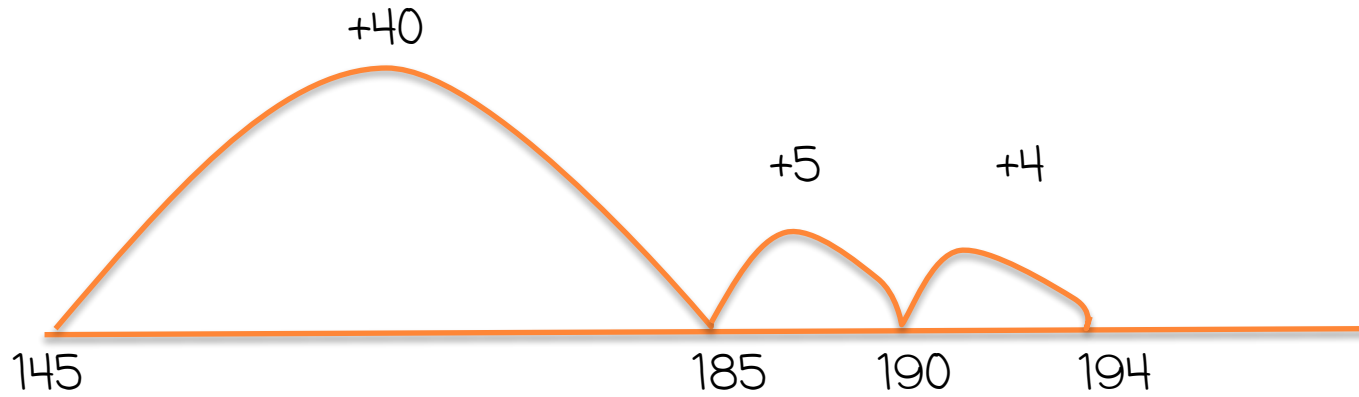
WHY IS PLACE VALUE FLEXIBILITY IMPORTANT?

- Develop number sense (ability to use and understand numbers)
- Promotes confidence in working with numbers
- Develop a deep understanding of many math concepts
- Build Fluency



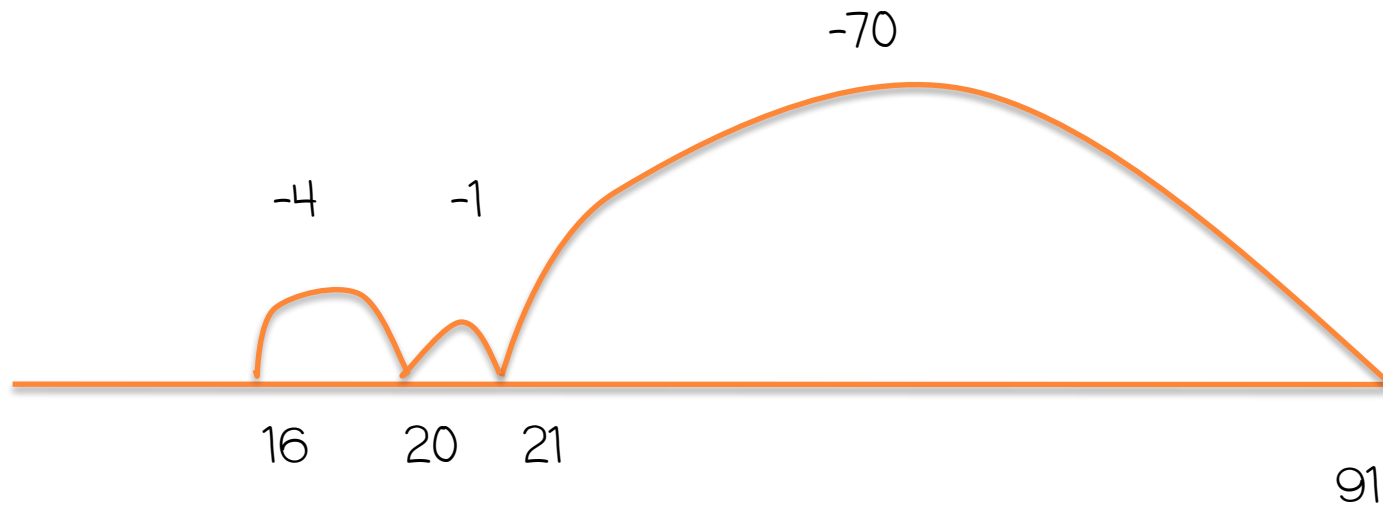
OPEN NUMBER LINE - ADDITION

$$145 + 49 = \underline{\quad}$$



OPEN NUMBER LINE - SUBTRACTION

$$91 - 75 = \underline{\quad}$$



EXPANDED FORM - ADDITION

$$\begin{array}{r} 145 \\ + 49 \\ \hline \end{array}$$

$$100 + 40 + 5$$

$$\underline{40 + 9}$$

$$100 + 80 + 14$$

$$100 + 80 + 10 + 4 = 194$$



KEEP ONE /BREAK ONE - SUBTRACTION

$$91 - 75 = \underline{\quad}$$

$$91 - 70 = 21 \quad (\text{Subtract the tens})$$

$$21 - 5 = 16 \quad (\text{Subtract the ones})$$



PARTIAL SUMS - ADDITION

$$145 + 49 = \underline{\hspace{2cm}}$$

145

+ 49

(add the hundreds) 100

(add the tens) 80

(add the ones) 14

194



SOLVE IT TWO WAYS!

$$346 - 128$$



Using the Steps to Problem Solve to Complete Journal Tasks

Problem Solving

Step 1: Read

What do I need to find out?
What do I know?
Make an answer sentence!



Step 2: Plan

What strategy do I need to use?

- Sketch a picture or model
- Make an equation
- Make a table or a list
- Guess, check, and revise
- Look for a pattern
- Use manipulatives



Step 3: Solve

Show all your work
Complete your answer sentence
Label your answer with units



Step 4: Look Back

Does my answer make sense?
How will I check?



JOURNAL TASKS ARE..

- ✓ Realistic Math Problems
- ✓ Open ended
- ✓ Multi-step

Name: _____ Date: _____

I received \$50 dollars in bills for my birthday. What bills might I have received? How many different combinations of bills can you find? Show your thinking.





PS11ShowMe

Teacher-made tutorials at your fingertips.

<http://ps11chelsea.org/ps11showme-tutorials>

- Second Grade Math: Expanded Form - Subtracting 3 Digit Numbers (with and without regrouping)
- Second Grade Math: "Open Number Line" Adding 3-digit Numbers
- Second Grade: Math - Addition Expanded Form with Regrouping (3-digit plus 3-digit)
- Second Grade: Addition Using a Base Ten Sketch (3-digit plus 3-digit)
- Second Grade: Math - Addition Using an Open Number Line (2-digit plus 2-digit)





MATH UNITS

2nd Grade Math HOPs

- [Unit 1: Addition, Subtraction and the Number System 1: Coins, Number Strings and Story Problems](#)
- [Unit 2: Geometry & Fractions: Attributes of Shapes and Parts of a Whole](#)
- [Unit 3: Addition, Subtraction, and the Number System 2: How Many Stickers? How Many Cents?](#)
- [Unit 4 Modeling with Data: Pockets, Teeth, and Guess My Rule](#)
- [Unit 5: Addition, Subtraction, and the Number System 3](#)
- [Unit 6: Linear Measurement: How Far Can You Jump?](#)
- [Unit 7: Foundations of Multiplication](#)
- [Unit 8: Addition, Subtraction and the Number System 4](#)

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