Grouping Units

1 The games at the arcade only accept quarters. Sophia had some dollars and quarters. She traded all her dollars for quarters. Complete the table to show how many quarters she might have now.

Dollars	Quarters	Total quarters
1	1	
1	3	
2	1	
1	2	
2		10
		15
		18

2 It costs 75¢ to play one of the arcade games. Complete the table for different numbers of games.

Games	1	2		3		5	
Quarters			12				
Cost	75¢	$1.50			$7.50		$15.00

Adding and Subtracting Measurements

Complete the table using the fewest units.

1
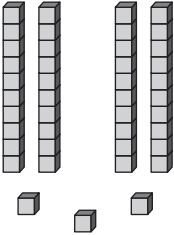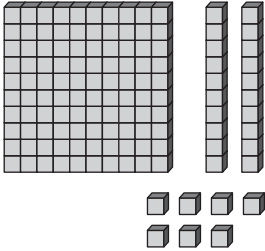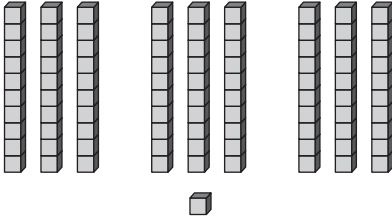
Yards	Feet	Inches	Total inches
0	1	0	12
1	0	0	36
0	1	7	
0	2	0	
1	1	1	
			30
1			40
			48
			60
			71

2

Gallons	Quarts	Pints	Total pints
0	1	0	2
1	0	0	8
0	1	1	
0	2	1	
1	0	3	
			16
			10
2			21
			25
4			34

Regrouping with Base-Ten Blocks

Write the number that matches the group of base-ten blocks.

1

2

3

4 If you combine the three groups above, how many blocks are used?

☐ flat, ☐ rods, ☐ units

5 Write the same amount using the fewest blocks.

☐ flats, ☐ rods, ☐ unit

Mystery Number Puzzles

This puzzle is not complete.

> **A** I am greater than 6 × 4.
>
> **B** I am a multiple of 7.
>
> **C** I am not greater than 6 × 8.
>
> **D** ?

1 What numbers match the first 3 clues? _____

> **You can use this space to keep track of your reasoning.**

2 Choose one of the numbers from Problem 1. Write a fourth clue so your number is the mystery number.

D _____

Mystery number: _____

Focusing on Digits

This puzzle is on LAB page 76.

> **A** I am between 10×10 and 20×20.
>
> **B** $h = u \times 3$
>
> **C** I am a square number.
>
> **D** $t = h \times 2$

Can you find the mystery number without using all the clues? Which clue didn't you use?

_____

_____

_____

_____

_____

_____

_____

_____

Working Strategically

Here are four clues for a mystery number puzzle.

I am a two-digit number. I am an odd number.

$t \times u = 6$ $\qquad\qquad$ $t > u$

1 Find the mystery number, and record the clues in the order you use them.

Who Am I?

A _____

B _____

C _____

D _____

mystery number: _____

2 Why did you choose to start with the clue you did?

_____

_____

_____

_____

3 How did you choose your second clue?

_____

_____

_____
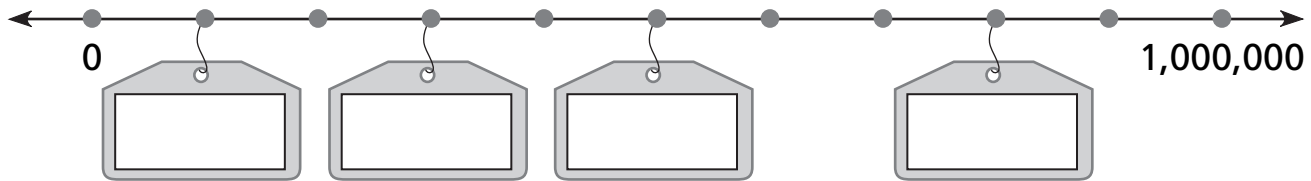
_____

Place Value with Larger Numbers

1 Round **530** to the nearest hundred.

2 Round **2,600** to the nearest thousand.

3 Round **490** to the nearest hundred.

4 Round **8,100** to the nearest thousand.

5 Label the tags on the number line.

0   1,000,000

6 Round **23,000** to the nearest ten thousand.

7 Round **87,000** to the nearest ten thousand.

8 Round **66,000** to the nearest ten thousand.