

Preliminary Planning Sheet

Tables for a Party

Unit: Place Value (TEKS Covered in Unit: 3.2A, 3.2B, 3.2C, 3.2D)

Process Standards: 3.1A, 3.1B, 3.1E, 3.1G

Major Underlying Mathematical Concepts

- Round whole numbers to base-10
- Interpret remainders
- Division/Subtraction/Addition
- Number sense to 34

Possible Problem-Solving Strategies

- Model (manipulatives)
- Diagram/Key
- Table
- Number line

Possible Mathematical Vocabulary/Symbolic Representation

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • Model • Diagram/Key • Table • Number line • Remainder • Tens, ones | <ul style="list-style-type: none"> • Odd/Even • Shape • Pattern • 4/10 • 100% • Place value | <ul style="list-style-type: none"> • Per • Estimation • Circle, trapezoid, rectangle, square • Equal/Unequal |
|---|---|--|

Possible Solution(s)

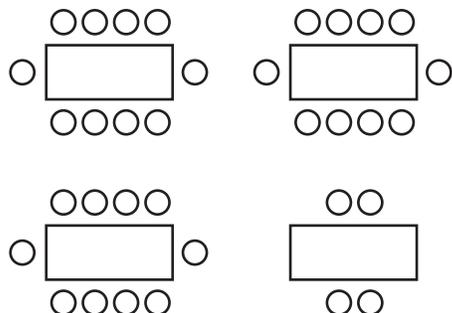
Answer

4 tables

Key

is 1 table

○
is 1 student



$$\begin{array}{r}
 3 \text{ r } 4 - 4 \text{ tables} \\
 10 \overline{) 34} \\
 \underline{- 30} \\
 4
 \end{array}$$

Table	Students Seated	Students Left Over
1	10	24
2	10	14
3	10	4
4	4	--

Possible Connections

- Patterns: Table +1, Students +10.
- There are 6 extra seats at the 4th table.
- There are an even number of seats per table.
- 34 is 3 tens and 4 ones.
- Only 4/10 or 40% of table 4 is used.
- 100% of 3 tables are used.
- To solve the task you must round to 4 tables, even though $4 < 5$.
- Relate to a similar task and state a math link.
- Solve more than one way to verify the answer.
- Show 10 students per table with other table shapes (square, triangle, circle).
- Show equal sets of students per sides of the tables.
- Show unequal sets of students per sides of the tables.

