# Thome Connections Math Activities 

## Grade 2

Number Sense and Numeration

Guess My Pattern Rule Show What You Know<br>Time Me<br>Lucky Rolls<br>Number Detective

## Guess My Pattern Rule

1. Have your child create a pattern by placing some coins (or other small objects) on the hundreds chart attached. Ask your child to think about the rule that was used.
2. Try to guess your child's rule.
3. Play the game a few times. You can make the pattern rules too!


## Let's Talk About It

What strategy did you use to create a pattern?
Can you think of another strategy that would be helpful in creating a pattern?
What patterns did you notice in the hundreds chart?

## Guess My Rule: Hundreds Chart

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

## Show What You Know!

There are many ways to add numbers together.

1. With your child take a look and talk about the different ways 35 and 28 are added together on the attached sheet.
2. Ask your child to add the other numbers on the attached sheet in more than one way.


## Let's Talk About It

Which numbers did you find easiest to add together? Why do you think that is?
Which numbers did you find you needed to work a little harder at to add? Why do you think that is?
Did your strategy change based upon the numbers you were given to add? Why do you think that is?

## Show What You Know!

For Example: $35+28$

| $30+20=50$ | $35+30=65$ | $35+25=60$ |
| :--- | :--- | :--- |
| $5+5+3=13$ | $65-2=63$ | $60+3=63$ |

$50+13=63$

| $59+47$ | $59+47$ |
| :---: | :---: |
| $52+49$ | $52+49$ |
| $81+19$ | $81+19$ |

## Time Me!

1. Have your child choose an activity from the attached chart.
2. Have your child estimate how long it will take to complete the chosen activity.
3. Use a clock, watch, or stop watch to time how long it actually takes.
4. Switch roles; now you can do the task while your child keeps track of the time.
5. Complete the other activities from the attached chart or make up your own activity.


## Let's Talk About It

How close were your estimates to the actual times to do the activity? Were some activities more difficult to estimate? Why? What strategy did you use to estimate?

## Time Me!

| Activity | Estimated Time | Actual Time |
| :---: | :---: | :---: |
| Brush My Teeth |  |  |
| Set the Table |  |  |
| Make My Bed |  |  |
|  |  |  |

## Lucky Rolls

## Materials:

## - 2 Dice

## Rules:

1. Your child will roll one die to decide the lucky number.
2. Players take turns rolling 2 dice. They can add or subtract the two numbers.
3. When a player makes the lucky number, he or she earns a point.

The first player to reach 10 points is the winner.

For example: The lucky number is 5


One and four makes 5 .


## Let's Talk About It

What did you do to get points?
Was it difficult to think of addition and subtraction at the same time? Why or why not?

## Number Detective

## Rules:

1. Tell your child that he or she is going to be a number detective and to find the number you are thinking of.
2. Think of a number between 0 and 100.
3. Have your child ask questions to discover what the number is.

## For example:

He or she may ask questions such as...

- "Is it bigger than 50?"
- "Is it an even number?"
- "Can I count by 10s to get to it?"
- "Is the tens digit bigger than the ones digit?"



## Let's Talk About It

How did you discover the number?
Which questions make it easier to guess the mystery number? What other questions could you use?

