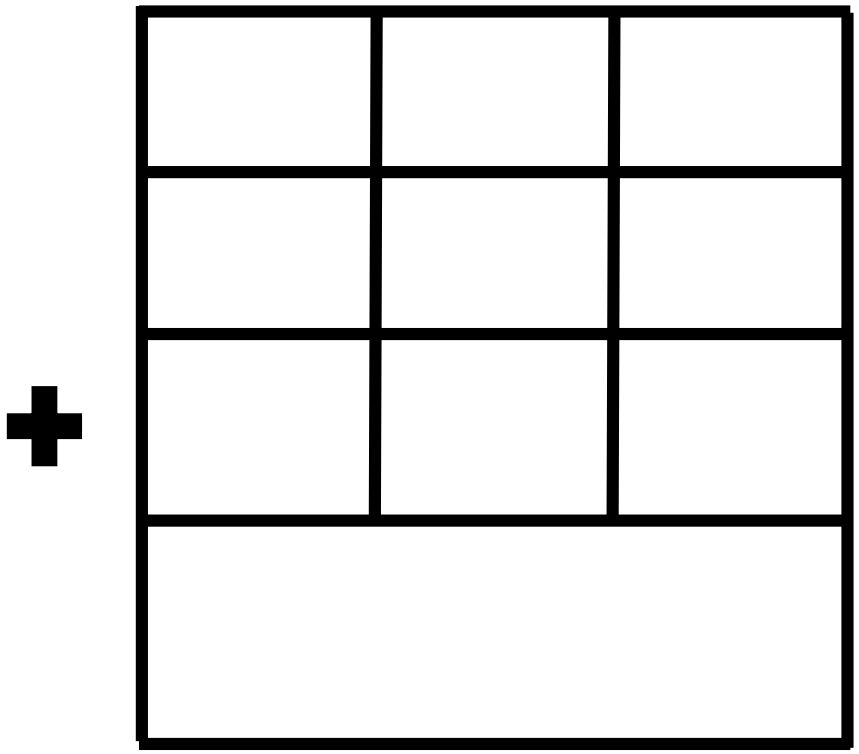
Mathematically Rich Tasks in Primary Schools

Chris Terlich- Dec 5, 2019

Don’t Break the Bank

Math For Love



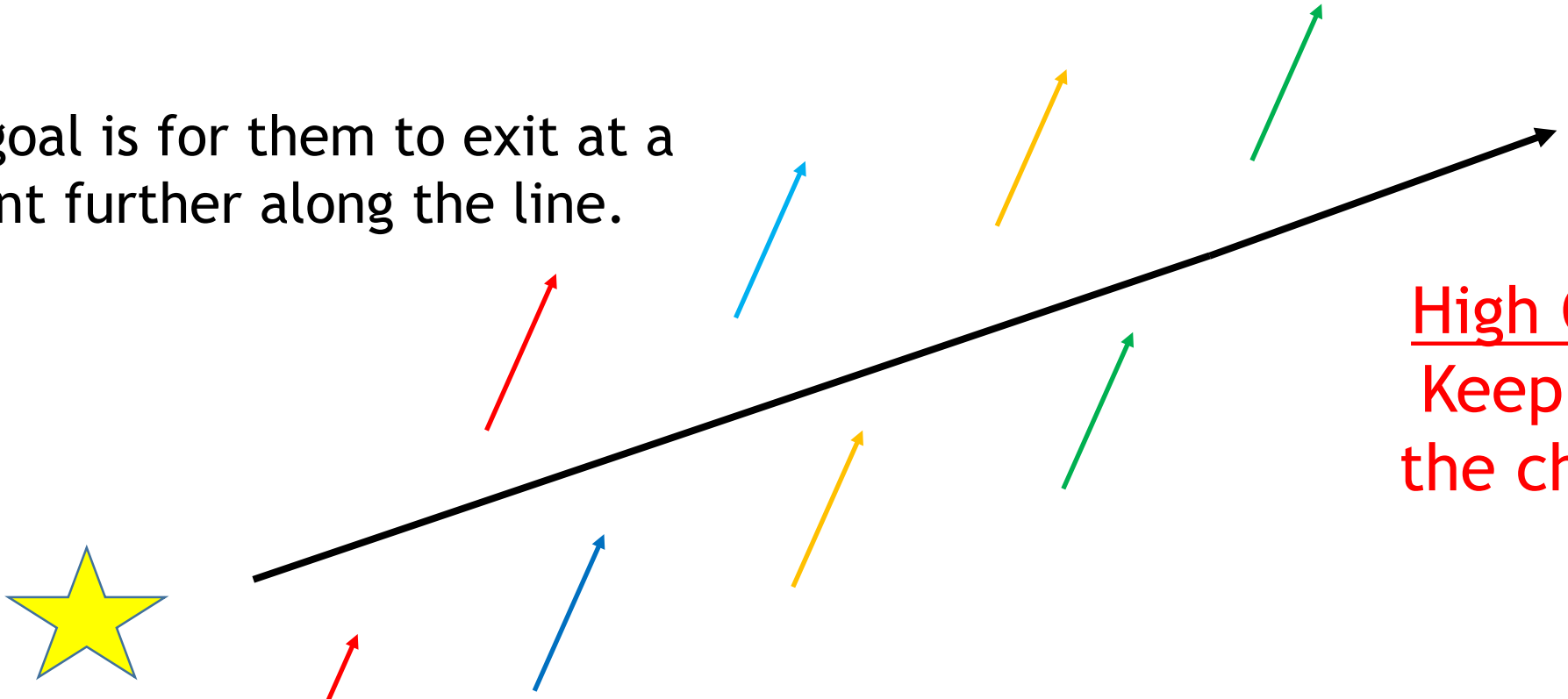
- Copy this grid.
- The die will be rolled 9 times. Place your digits on the grid after each roll.
- After the 9 rolls, you will have three 3-digit numbers. You need to calculate the sum of these numbers.
- The object of the game is to get as close to 1000 without going over. If you are over, you have broken the bank!

Presentation Intentions

- To investigate a number of activities and resources.
- Have the opportunity to network with other professionals to share ideas and practice.
- Position yourself as the learner.

ONE TASK FOR ALL

The goal is for them to exit at a point further along the line.

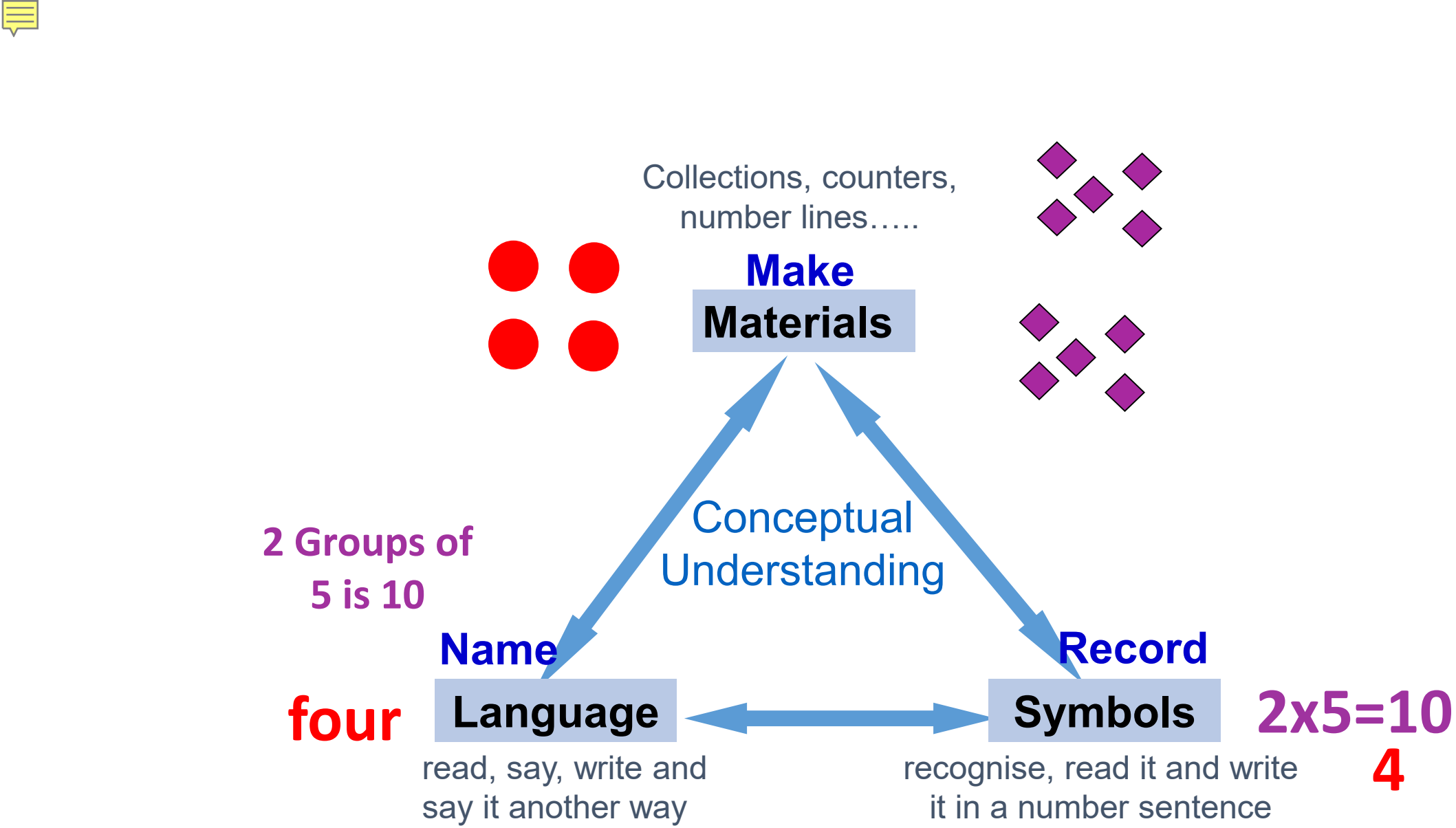


High Ceiling:
Keep raising the challenge

Basic Starting Point:
Everyone can access the learning

All students will find their challenge point

Adapted from Maths 300



Reference: Prof. Dianne Siemon

What are your thoughts?

Counter Toss
ReSolve

How to Play

- Toss your 4 two-coloured counters onto the table.
- You score 5 points for every yellow and 2 points for every red.
- Play 5 rounds, recording your scores as you go.

Counter Toss ReSolve

What is every possible score?

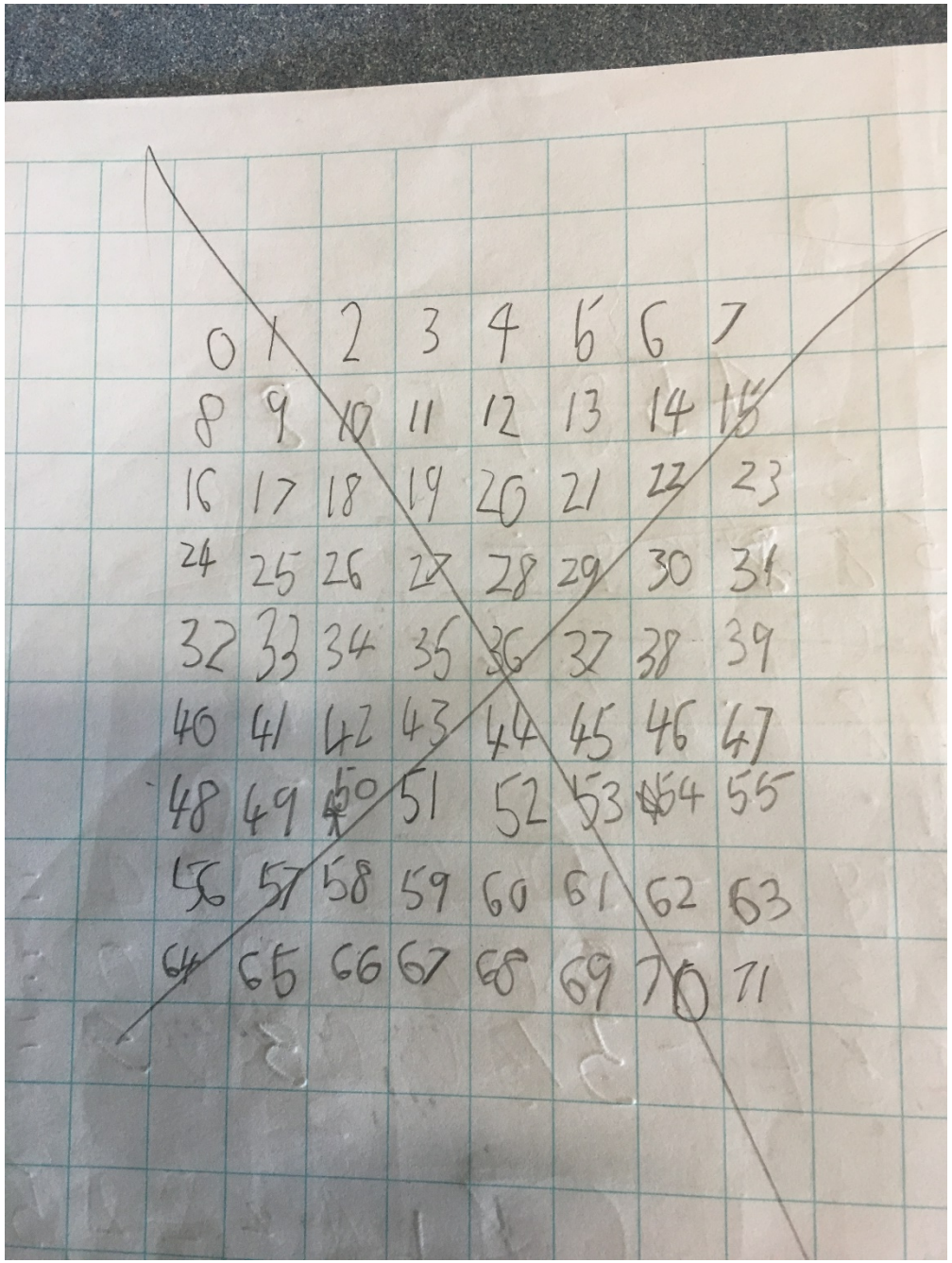
What if there were 5 counters?

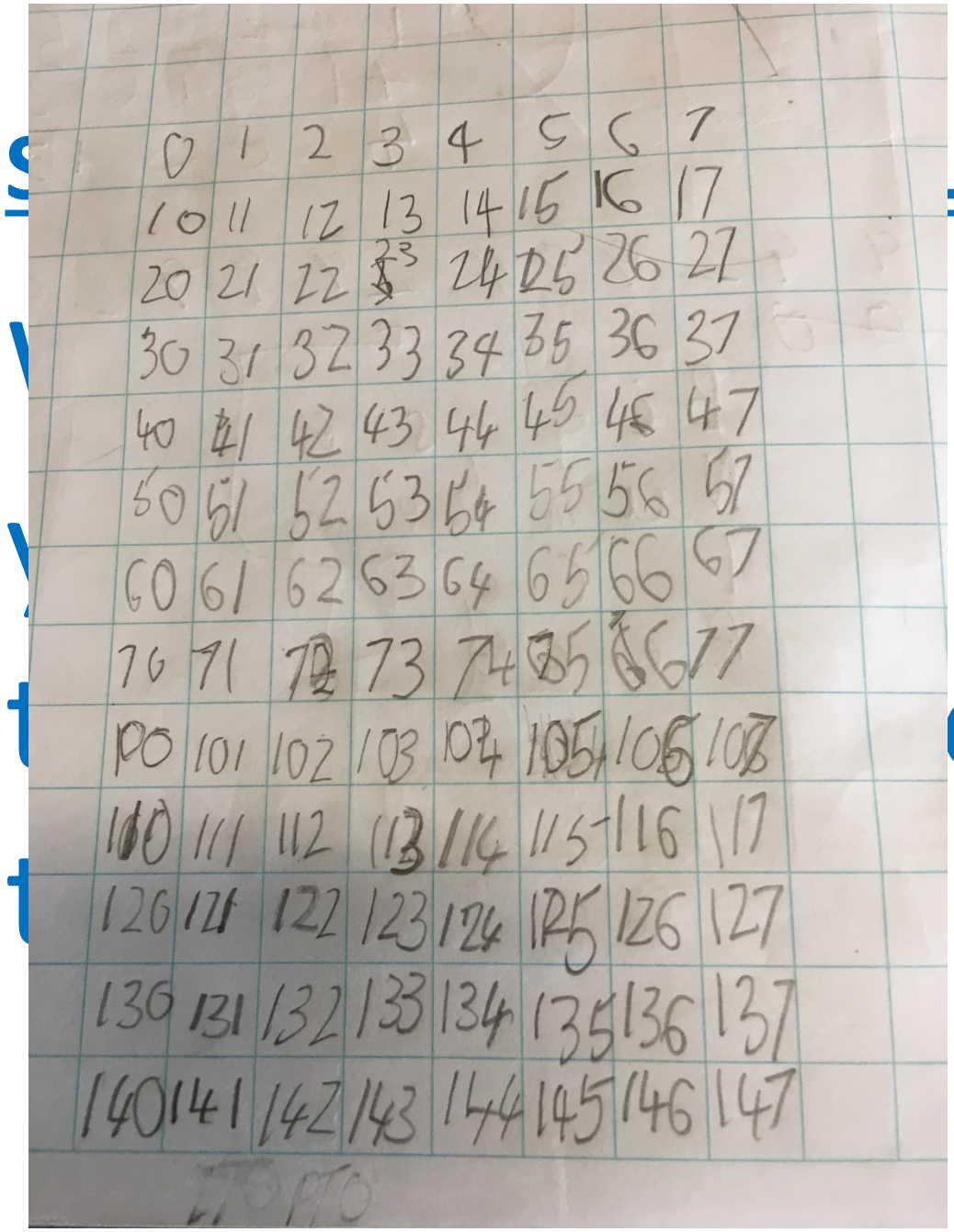
What do you notice?

What if you changed the scoring system?

Cartoon Counting

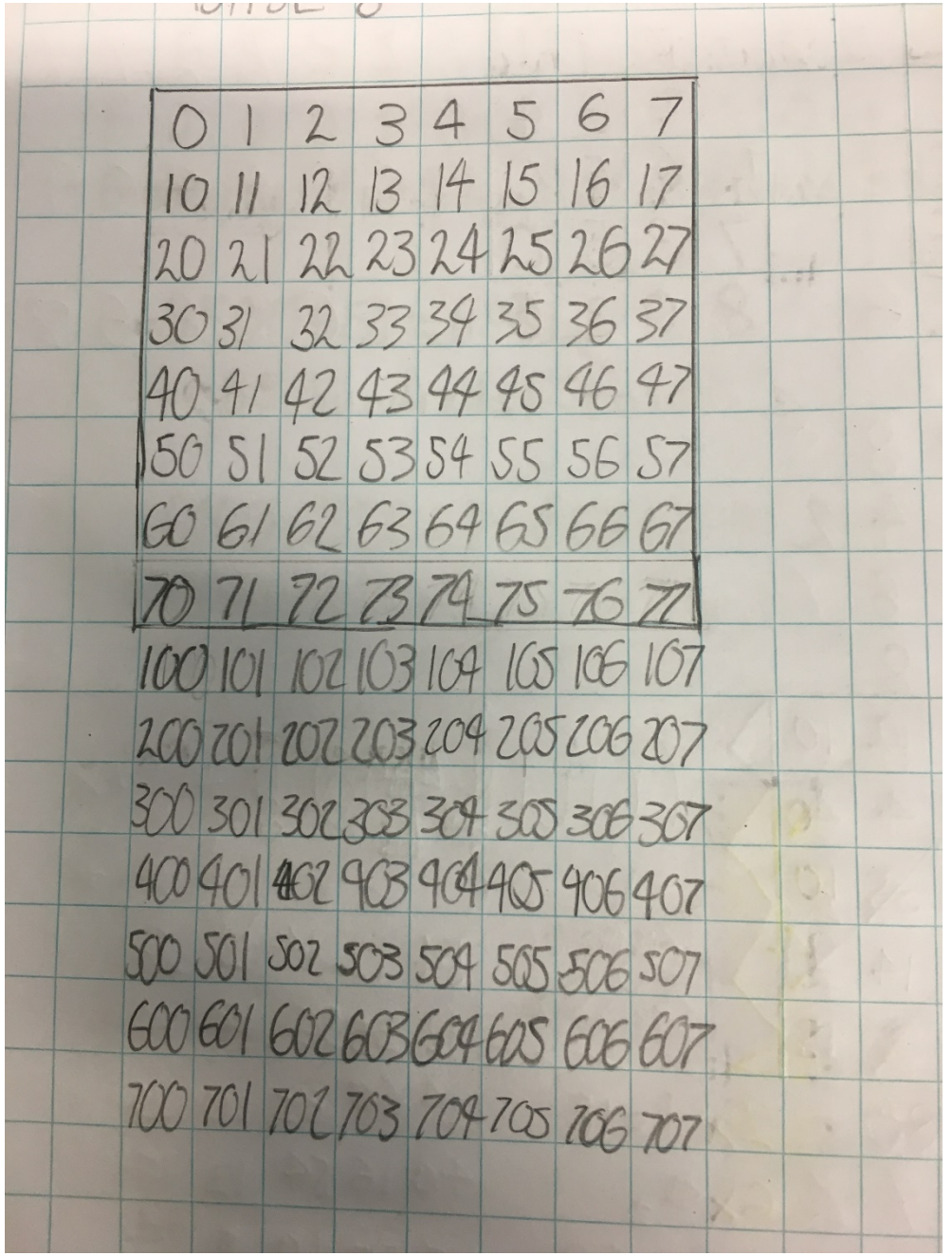
ReSolve





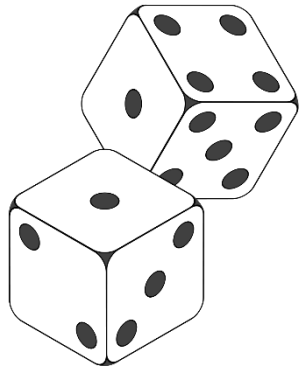
Student Work Sample 2

What would be your explicit teaching point for this student?

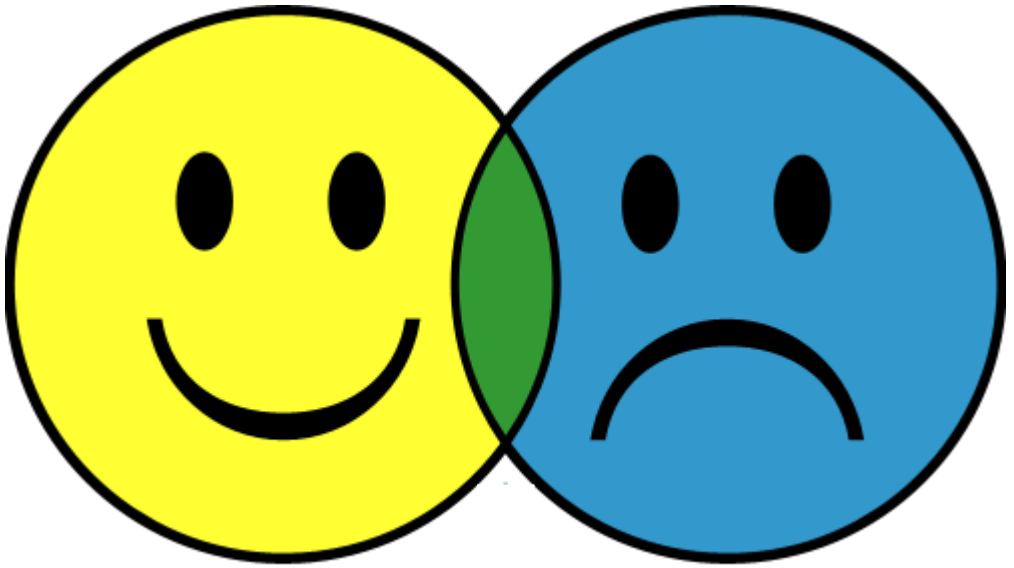


Problem Dice
Maths 300

- Find a partner to play a dice game.
- Player 1 is the older person, Player 2 is the younger person.
- You will roll 2 dice and then find the difference between the two numbers (eg. Roll a 2 & a 5, the difference is 3).
- *Player 1 scores a point if the difference is 0, 1 or 2.*
- *Player 2 scores a point if the difference is 3, 4 or 5.*
- Play 20 games and keep track of your score.



Is this a fair game?
Why/why not?



Can we make it a fair game?

Thanks for attending this presentation.

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