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









4 6 3 6 0 11 12 13 9 14 P XO 23 19 26 24 17 18 21 24 25 26 22 28 29 31 30 39 34 35 4/ 42 43 46 44 45 46 47 52 53 464 55 48 49 49 51 5 57 58 59 60 61 62 63 65 66 67 68 69 571

5 3 2 4 12 13 14 15 1011 20 21 22 3 2425 20 30 31 32 33 34 35 36 37 43 44 45 45 47 40 41 53 64 55 56 57 62636465 767172 Ur 100 102 103 104 105 101 100 111 112 (13/14/15-116 126 121 122 123 124 125 126 35136 142 143 144 145 146 141

Student Work Sample 2

What would be your explicit teaching point for this student?

0 1 2 3 4 5 6 7 10 11 12 13 14 15 16 17 20 21 22 23 24 25 26 27	
10 11 2 3 4 5 6 7 10 11 12 13 14 15 16 17 20 21 22 23 24 25 26 27	
10 11 12 13 14 15 16 17	
20 21 22 23 24 25 26 27	
30 31 32 33 34 35 36 37	
40 41 47 43 44 45 46 47	
50 51 52 53 54 55 56 57	
60 61 62 63 64 65 66 67	
70 71 72 73 74 75 -6 71	
	+
100 101 102 103 104 105 106 101	
200 201 202 203 204 205 206 207	
300 301 302 203 309 305 306 207	
400 401 467 903 904 405 906 407	-
	-
20 001 002 503 509 505 506 507	
600 601 602 603 604 605 606 607	
700 701 702 703 709 705 705 707	
	-

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.

chris@elevatinglearning.com.au

