

SD72 PARENT HOME LEARNING LESSON

Number Creation - The five 5s

PURPOSE / SKILL: To build number fluency and flexibility. To problem solve using all the possible operations with numbers. Practice using operations with whole numbers; explore using order of operations. To engage in math conversation.

MATERIALS: Recording sheet, extra Paper/ or erasable surface, pencil, access to calculator to check answers. Work together with another person! It is more fun if you can work as a team.

INSTRUCTIONS:

- Using five 5s, try to find/create all the numbers from 1 to 20. You can use any operations, but you must always use all five of the 5s.
- List all the possible operations that can be used (additions, subtraction, multiplication, division, - *some might add square root, fractions or exponents*)
- Record as many solutions as you can for each number.
- Discuss/Debrief: which numbers were the easiest to find/create? Which numbers were you unable to create, why might that be? How might following the “order of operations – BEDMAS change this activity?
- **SEE THE EXAMPLE USING 4's ON THE NEXT PAGE**

ACTIVITY: Recording sheet below for solutions

1.	2.	3.	4.	5
6.	7.	8.	9.	10
11.	12.	13.	14.	15.
16.	17.	18.	19.	20.

POSSIBLE NEXT STEPS:

- Extend to number beyond 20 ... can you find the numbers up to 50? 100?
- Try this again using four 4s.
- Make a number challenge of your own that is similar to this one.
- Can you use four 4s to make negative numbers?
- Ask what patterns do you notice?

ADD IMAGE OF PROCESS – *using four 4s.*

1. $(4+4-4)\div 4 = 1$	2.	3.	4.	5.
6.	7.	8. $4+4+4-4 = 8$	9. $\frac{4}{4} + 4 + 4 = 9$	10.
11.	12.	13.	14.	15. $44 \div 4 + 4 = 15$
16. $4+4+4+4 = 16$	17. $\frac{4}{4} + 4 \times 4 = 17$	18.	19.	20. $\left(\frac{4}{4} + 4\right) \times 4 = 20$