

Activity 2c: Game of 24

Recommended Grades: 4–5

Activity Instructions

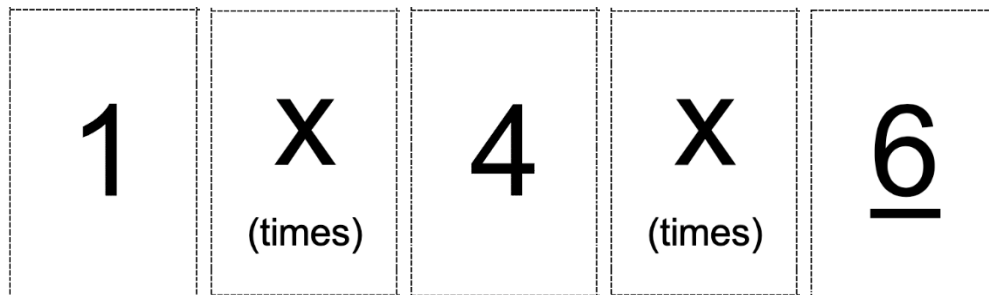
1. Shuffle the deck of number cards and deal five number cards to each player.
2. Place the cards face up so everyone can see each other's cards.
3. Set the remaining cards in the center. Set the operations cards in the center face up.
4. On your turn, use your cards to make 24 by using any operations cards you need: You can add, subtract, multiply, and divide as many times as you need.
5. If you can't make 24, you can exchange one or more number cards and wait until the next turn.
6. The person with the most points at the end of the round (when all the number cards have been used) wins.

Scoring

Use five number cards: 10 points

Use two to four number cards: 5 points

Use 1 number card: 1 point



Virtual Game Link:

https://jamboard.google.com/d/1FEMv-_7jp02gJfDFeppoJMicrJufPNTThBfR6mjonvY/copy

Family Prompts

- Help deal the cards.
- Let your children lead but offer hints if you see they are stuck—for example, remind them of the factors of 24 (whole numbers that divide 24 evenly such as 2 and 12 or 3 and 8). It's okay to help your children or have them help you if you are stuck (or pretend to be stuck).
- Encourage your children to look for ways to group numbers. For example, children may first group 3 and 1 ($3 + 1$) and then multiply the sum by 6 to form the number sentence $(3 + 1) \times 6 = 24$. Here's another grouping example to help you think of options: $(9 - 1) \times (2 + 1) = 24$.
- How is ____'s way of making 24 like/different from yours?
- How can you check this?
- Did you try a method that did not work? Why didn't it work? Would it ever work? Why or why not?
- What if you had started with ____ rather than ____?

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Supporting Materials

0 0 0 0

1 1 1 1

2 2 2 2

3 3 3 3

4 4 4 4

5 5 5 5

6 6 6 6

7 7 7 7

8 8 8 8

9 9 9 9

10 10 10 10

11 11 11 11

12 12 12 12

13 14 15 16

17 18 19 20

20 20 20 21

22 23 24 24

+

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+

(plus)

(plus)

(plus)

(plus)



(minus)



(minus)



(minus)



(minus)



(times)



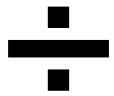
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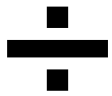
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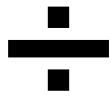
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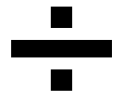
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