



Prep & Year 1 Family Maths Games Evening

Support Materials

Thursday 8 October 2020

6pm ~ 6.45pm

Microsoft Teams

Why play Maths Games?

- Support development of fluency
- Encourage strategic thinking
- Are highly engaging
- Hold students accountable
- Support home and school connections

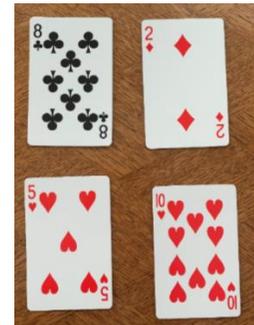
Source:

https://www.nctm.org/publications/teaching-children-mathematics/blog/why-play-math-games_/

Card Layout

Materials: Deck of cards with picture cards removed

- Take out the picture cards
- Shuffle your cards
- Arrange four numbered cards in a 2 x 2 array
- Find the total for each row and column



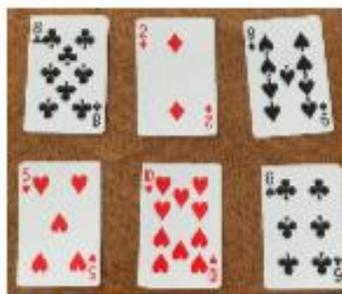
Try to rearrange the cards so that different sums are produced.

How many different sums are possible?

What system do you have for checking that you have found all possibilities?

Challenge:

Start with a 2 x 3 array

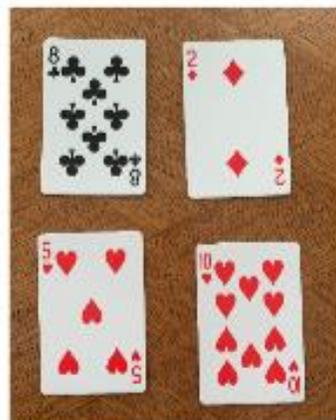


$$8+5 \quad 2+10 \quad 9+6$$

$$8+2+9$$

$$5+10+6$$

Find the difference or the product of the cards rather than the sum



$$8 \times 5 \quad 2 \times 10$$

$$8 \times 2$$

$$5 \times 10$$

Wild 8s

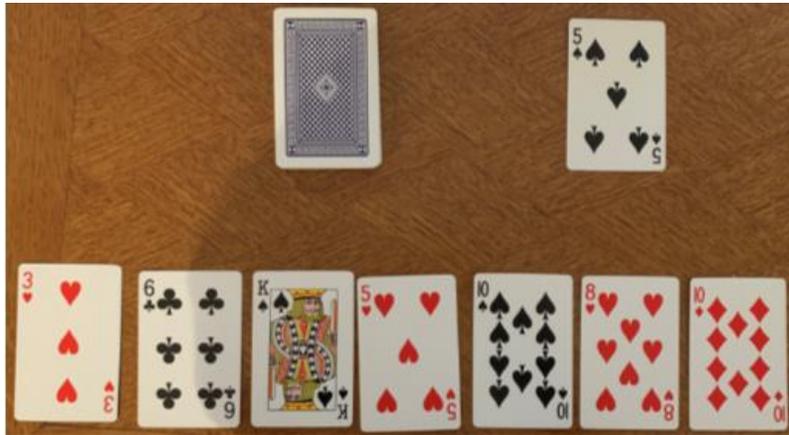
Materials: Deck of cards

Aim: The first person to discard all cards is the winner

Deal yourself 7 cards – this is called your HAND.

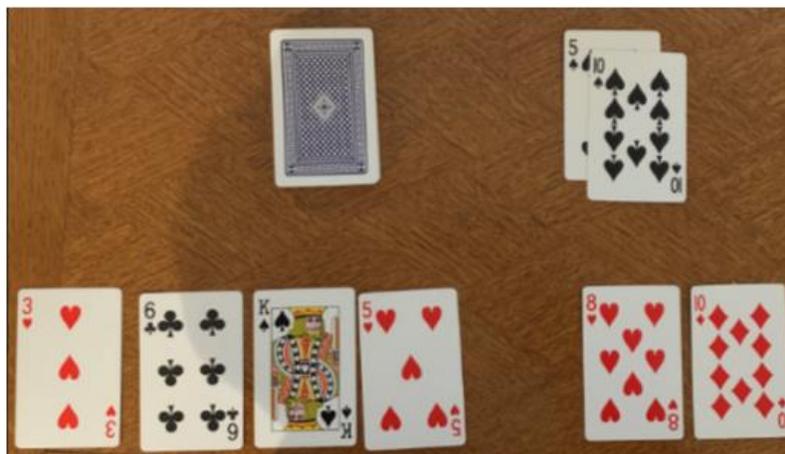
Turn another card over for the THROW OUT PILE.

Put the rest of your cards in a pile as a PICK UP PILE.



Take a card from your hand and put it into the THROW OUT PILE.

You can throw out a card if it matches the number or suit on the top card.



Can you do anything else?

If you can't do anything else, pick up cards from the PICK UP PILE. Remember you need 7 cards in your HAND.



What can you do now?

Do you have a 10 or another ♠ card?



What can you do now? Do you have a 10 or another ♦ card?

Keep playing until all your PICK UP CARDS are gone.
 How many cards do have left in your HAND at the end?
 Write this number down.

Can you play again but this time, try to end with less cards in your HAND?

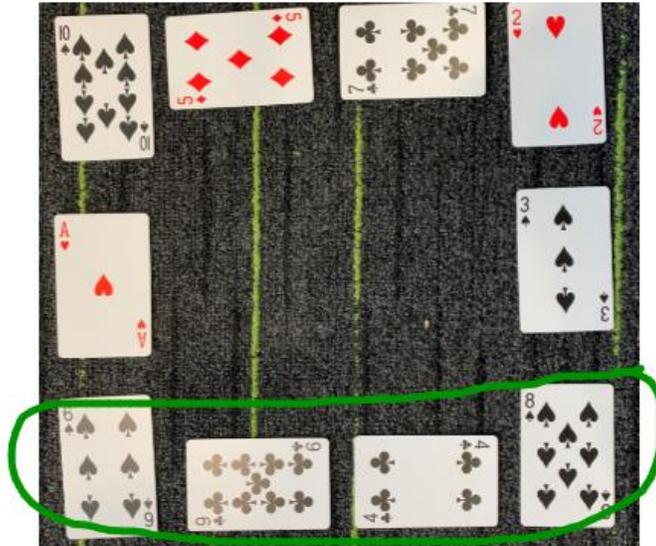
New rule: If you have an 8 you can pretend it is any card that you need.

Boxed Cards

Materials: Deck of cards with picture cards removed

Take 10 cards from your packet (Ace to 10) and set them up in a box similar to this

Add up the numbers shown on the cards that form the sides of the box



Can you move the cards around so that:

- The top and bottom both add to an even number
- The 2 sides both add to odd numbers
- One side adds up to 18
- Two sides add up to 18
- All sides add up to 18

Variations ~

- **Addition and subtraction** – Is it possible to have 2 sides equal the same total? 4 sides equal the same total?
- **Using all four operations (Addition, Subtraction, Multiplication and Division)** - Is it possible to have 2 sides equal the same total? 4 sides equal the same total?