

**“88% OF CHILDREN SAY THEIR MATHS CONFIDENCE
IMPROVES WHEN PARENTS BECOME MORE INVOLVED IN
THEIR LEARNING.”**

(NATIONAL NUMERACY SURVEY)

PLAYING NUMBER GAMES HELPS IMPROVE MATHS

- “PLAYING GAMES ENCOURAGES STRATEGIC MATHEMATICAL THINKING AS STUDENTS FIND DIFFERENT STRATEGIES FOR SOLVING PROBLEMS AND DEEPEN THEIR UNDERSTANDING OF NUMBERS.”
- “WHEN PLAYED REPEATEDLY, GAMES SUPPORT STUDENTS’ DEVELOPMENT OF COMPUTATIONAL FLUENCY.”
- “GAMES SUPPORT A SCHOOL-TO-HOME CONNECTION. PARENTS CAN LEARN ABOUT THEIR CHILDREN’S MATHEMATICAL THINKING BY PLAYING GAMES WITH THEM AT HOME.”

(NCETM)

Factual Fluency: Let's Play!

Aim: to reach 100



End of your turn. Loose points scored this go!

- **First player turns over a card and writes down value. Turns over next card and accumulates score. Keeps going until they choose to “stick” and bank their current score. If they turn over a King/Ace, loose all score from that turn.**
 - **Second players turn as above.**
- **Play continues, with players building on score from previous turn.**
 - **If you go above 100, you're bust.**
- **Obviously you can adapt the game too to make it easier or more challenging.**
 - **To work on subtracting you work from 100 down to 0.**

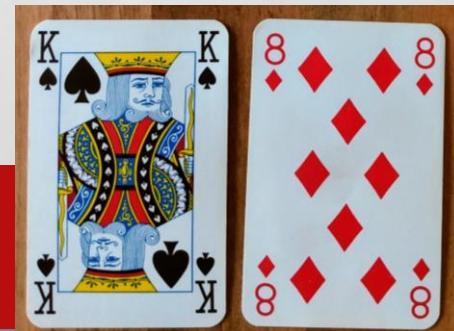
FLUENCY USING DICE

- **Aim: get to 100**
- **In pairs, roll the die one at a time**
- **Accumulate your score as you go**
- **You can stick when you want but you can't roll again for that game.**
- **If you go beyond 100 you're bust.**

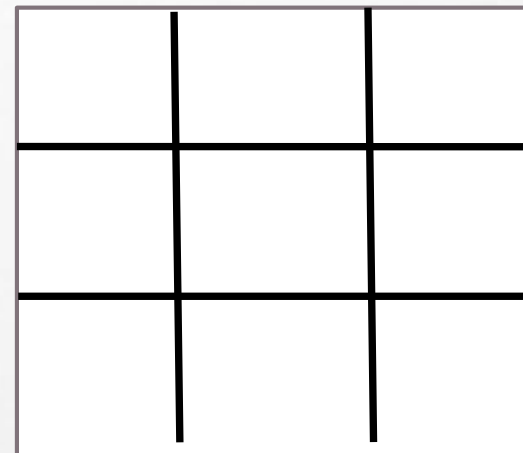
This can also be played using subtraction in reverse from 100 down to 0.

WARRIOR – NUMBER BONDS OR TIMES TABLES

- **SPLIT A PACK OF CARDS IN HALF**
- **LEAVE A GAP IN BETWEEN THE TWO PILES TO LAY THE CARDS DOWN**
- **DECIDE IF YOU ARE FOCUSING ON TIMES TABLES OR NUMBER BONDS**
- **ONE AT A TIME A CARD IS TURNED OVER AND LAID FROM EACH PILE. IT IS THE FASTEST PERSON TO SAY THE ANSWER WINS A POINT**
- **THE WINNER IS THE PERSON WITH THE MOST POINTS ONCE ALL OF THE CARDS ARE LAID.**



NUMBER TIC TAC TOE



- **USING NUMBERS 1 - 9 ONLY, TRY TO CONNECT 3 NUMBERS IN A ROW TO MAKE A TOTAL OF 15 (VERTICALLY, HORIZONTALLY AND/OR DIAGONALLY)**
- **IN PAIRS, ONE OF YOU WRITES ONE NUMBER EACH TIME IN A SPACE TO TRY TO MAKE 15.**
- **YOU CAN'T START WITH 5 IN THE MIDDLE BOX**