

Shake Rattle Roll

This is a good activity while you are fixing dinner, taking a car trip or while waiting at a doctor's office.

Number of Players: just 1 or any number of children

Materials: 2-4 number cubes/person (see "Number Cubes Needed" sheet)
Graph paper (or any paper) & pencils or pens
Recording of a favorite song

How to play:

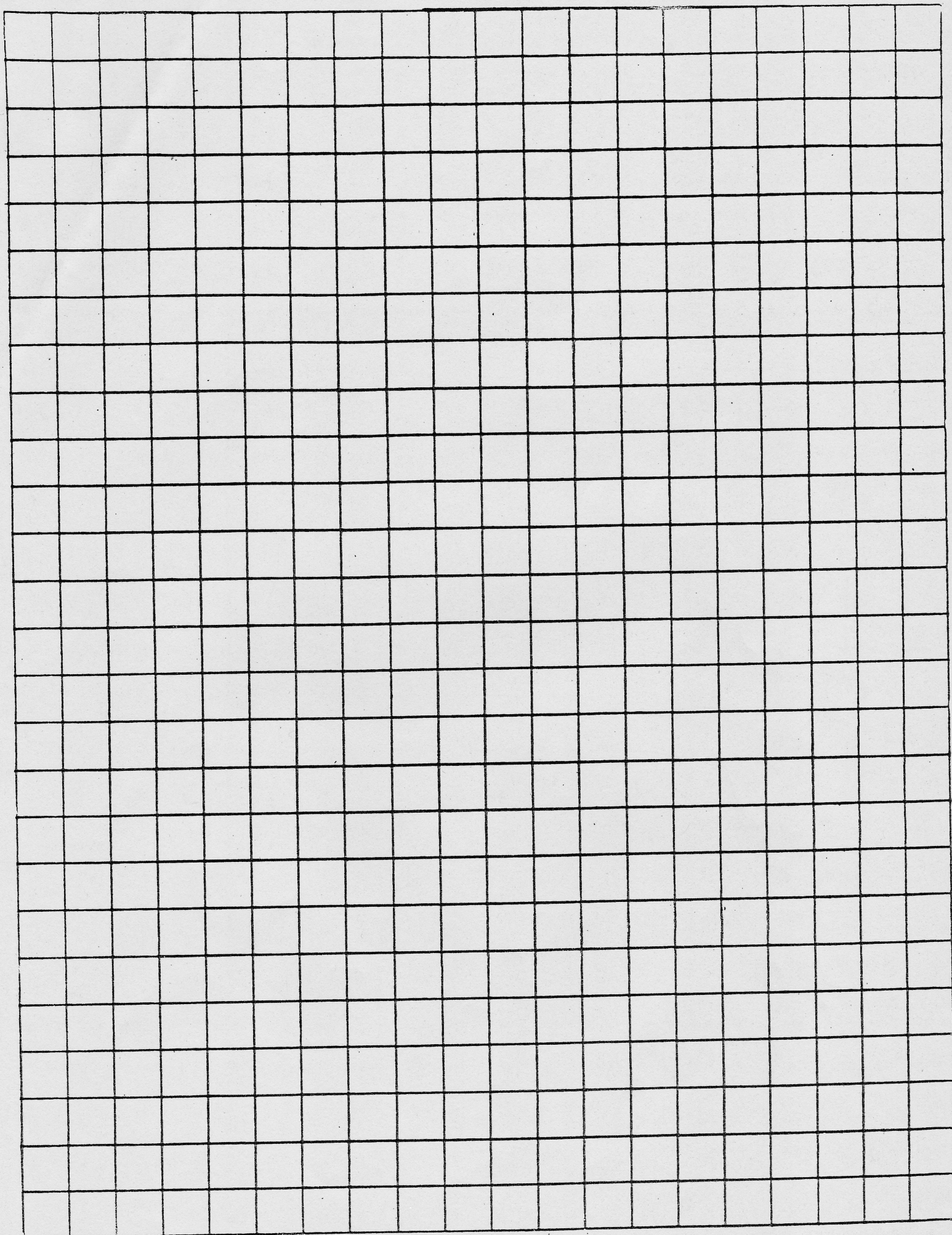
1. Play your favorite song and shake cubes for as long as the song lasts
2. For the doubles in addition game, write the equation for every doubles fact you shake. If you don't shake any doubles just shake again (there is no penalty).
3. At the end of the song, count how many facts you were able to write.

Hint: Parents can write the facts as child shakes and says the facts to speed things up. Knowing the facts is what's important. Or if you have two kids practicing facts, one can shake and say the facts and the other write the facts. (Then play the song again and reverse who shakes and who writes). The graph paper helps kids with writing the facts but any scratch paper can be used.

Variations:

For doubles + 1, doubles + 2, adding 1 & adding zero, and adding 10 & adding 9 encourage your child to write equations using the numbers that are being added both ways. E.g. $6 + 7 = 13$ should instantly lead your child to also write $7 + 6 = 13$. Watch for super shakes like 4 5 6 9 - in doubles + 1 you can write $4 + 5 = 9$, $5 + 4 = 9$, $5 + 6 = 11$ and $6 + 5 = 11$!

The same thing should be encouraged in multiplication. E.g. $5 \times 9 = 45$ should instantly lead to also writing $9 \times 5 = 45$.



Number Cubes Needed for Safety Zone Game and for Shake, Rattle & Roll

Addition Facts	For older learners	For younger learners
Doubles Doubles + 1 Doubles + 2 or Sharing	Make four cubes like this: 4 5 6 7 8 9	Make four cubes like this: 0 1 2 3 4 5
Adding 0 & 1	Make two cubes like this: 0 0 1 1 1 ☹️ 4 5 6 7 8 9	Make two cubes like this: 0 0 1 1 1 ☹️ 0 1 2 3 4 5
Adding 10 & 9	Make two cubes like this: 9 9 9 9 9 ☹️ 4 5 6 7 8 9	Make two cubes like this: 10 10 10 10 10 ☹️ 0 1 2 3 4 5

Multiplication Facts	For all learners, make 2 cubes for each group: Cube 1 & Cube 2
X 2	2 2 2 2 2 ☹️ & 4 5 6 7 8 9
X 5	5 5 5 5 5 ☹️ & 4 5 6 7 8 9
X 0 X 1	0 0 1 1 1 ☹️ & 4 5 6 7 8 9
X 9	9 9 9 9 9 ☹️ & 4 5 6 7 8 9
X 3 X 4	3 3 4 4 4 ☹️ & 4 5 6 7 8 9
X 6 X 7 X 8	6 7 7 8 8 ☹️ & 4 5 6 7 8 9
Doubles	Make 4 cubes like this: 4 5 6 7 8 9