

Shake and Spill!

How to play:

1. Select between 5 and 20 small objects such as cheerios or small pieces of Lego.
2. Count them to make sure you know how many there are.
3. Put them in a cup.
4. Pour them onto the image of the bucket. Some will land inside the bucket and some will not.
5. In your journal, draw or write numbers to show what landed in the bucket and what spilled outside!
6. Try again! How many ways can you shake and spill?

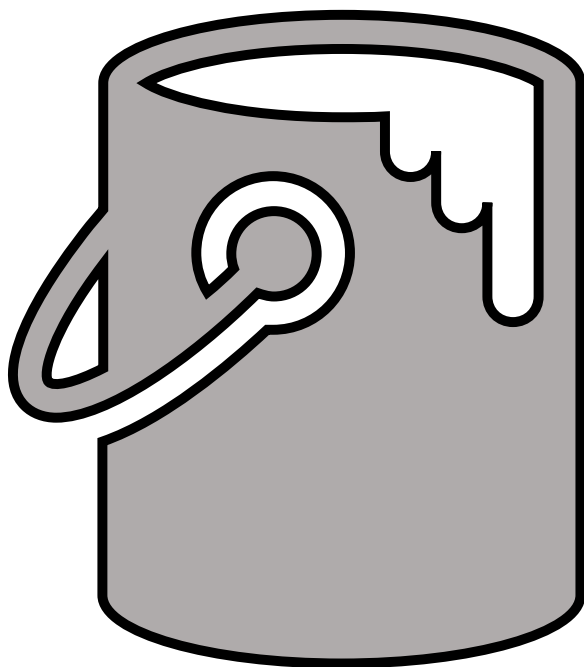
Teacher Tip:

- Put the printout into a plastic pocket to protect it.
- Put the protected printout into the bottom of a container so that the pieces don't spill onto the floor.

Extensions:

1. If you count what is in the bucket, can you figure out what fell outside the bucket without counting?
2. Can you write an equation? In the bucket + outside the bucket = total?
3. Play with 5 or ten. Can you graph the combinations? Which combination will win? Graphing printout on page 3 and 4.

How many are inside the bucket?
How many are outside the bucket?





Graph the combinations!

Up to 5



$5 + 0$	$4 + 1$	$3 + 2$	$2 + 3$	$1 + 4$	$0 + 5$

Outside + Inside



Graph the combinations!

Up to 10



$10 + 0$	$9 + 1$	$8 + 2$	$7 + 3$	$6 + 4$	$5 + 5$	$4 + 6$	$3 + 7$	$2 + 8$	$1 + 9$	$0 + 10$

Outside + Inside