

## Order of Operations Problems

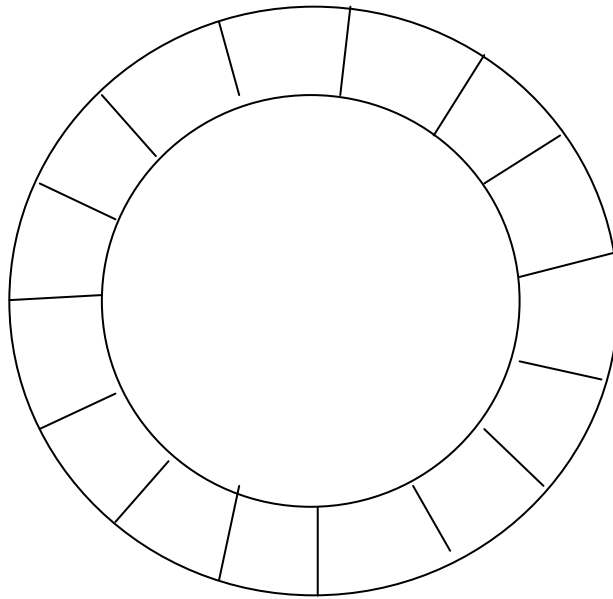
$x^2 - 6$ $x=4$	$2(16-5) + 2 =$	$(x+y) + 3 =$ $x=7 \ y=6$
$3x + 2x =$ $x=4$	$x^2 \div 2 =$ $x=6$	$2(8+7) =$
$3(6+8) - 2 =$	$\frac{1}{3} \div \frac{1}{x} =$ $x=9$	$2(x) + 1 =$ $x=10$
$7x =$ $x=5$	$x^2 \div 3 + 1 =$ $x=3$	$3n + 1 =$ $n=8$
$x^2 + 3x - 4 =$ $x=5$	$\frac{1}{4} \div \frac{1}{x} =$ $x=8$	$x^2 + 2 =$ $x=5$
$x^3 - 3$ $x=2$	$3(x+y) - 13 =$ $x=6 \ y=9$	$(15x-8) \div 2 + 1 =$ $x=2$

## Order of Operations Answers (A)

$x^2 - 6$ $x=4$ $A=10$	$2(16-5) + 2 =$ $A=24$	$(x+y) + 3 =$ $x=7$ $y=6$ $A=16$
$3x + 2x =$ $x=4$ , $A=20$	$x^2 \div 2 =$ $x=6$ $A=18$	$2(8+7) =$ $A=30$
$3(6+8) - 2 =$ $A=40$	$\frac{1}{3} \div \frac{1}{x} =$ $x=9$ , $A=3$	$2(x) + 1 =$ $x=10$ , $A=21$
$7x =$ $x=5$ , $A=35$	$x^2 \div 3 + 1 =$ $x=3$ , $A=4$	$3n + 1 =$ $n=8$ , $A=25$
$x^2 + 3x - 4 =$ $x=5$ , $A=36$	$\frac{1}{4} \div \frac{1}{x} =$ $x=8$ , $A=2$	$x^2 + 2 =$ $x=5$ , $A=27$
$x^3 - 3$ $x=2$ , $A=5$	$3(x+y) - 13 =$ $x=6$ $y=9$ , $A=32$	$(15x-8) \div 2 + 1 =$ $x=2$ , $A=12$

## Chalk Circle Game

We used these cards for an active outdoor game. We made a giant circle out of chalk and put numbers into each space. Which numbers? We wrote down the numbers as we skip counted by 2s, 3s, 4s, 5s. So in all, we used about 40 spaces (though not drawn in the example below.) If there were extra spaces, I filled them in with random numbers.



I printed the Order of Operations cards on card stock and cut them up. The answers for these Order of Operations problem cards were also on the chalk circle (if you include all the skip counting numbers above).

While my younger daughters used Chalk Circle Game to practice skip counting, multiplication, and division my son figured out the answers to these problems and then placed the card on that square. (I had the answer sheet and told him whether he had the answer correct or not.)

This was a HUGE success!! The kids had fun and practiced a lot of math.

## Chalk Circle Game Activity Suggestions

As fast as you can...

1. Skip count by 2s going from space to space.
2. Skip count by 3s
3. Skip count by 4s
4. Skip count by 5s
5. Instructor/Parent calls out a multiplication problem. Kids run to the answer.
6. Student is given one of the Order of Operation Cards. He/She quickly figures out the answer and places the card on the space with the answer. (We did it with a timer. The kids had to answer as many problems as they could in 3 minutes).

Instructor/Parent checks the answer with the Answer Sheet (A=answer).