



EXPONENT RULES

(Laws of Exponents)

KOOSH BALL GAME



EXPONENT RULES

Koosh Ball Game!

Objective: Students will practice applying the properties of exponents (product rule, quotient rule, power rule, and negative exponent rule) to simplify monomial expressions with this PowerPoint Koosh Ball Game. There are also application problems with finding area and perimeter of geometric figures on some of the 1,000-point problems. There are 45 problems in this game!

Directions:

- 1) Distribute a recording worksheet to each student. Divide the class into two teams and open the PowerPoint to run the game.
- 2) Choose one student to aim for the board with a Koosh ball. When they hit the board, it will advance to that slide. All students (both teams) write down and simplify the expression on their recording sheet. Call on someone from the team that threw to answer it and if they answer correctly, they get the points. There is an answer key for you to check! If they answer incorrectly, call on someone from the other team.
- 3) Click "Answer" to verify the answer. Then click "Back" to return to the slide with the circles to throw again. There are only 30 spaces on the worksheet, however, if students wish to continue playing, they can work the problems on their own notebook paper.

EXPONENT RULES KOOSH BALL GAME!
Directions: Simplify the expressions as they appear on the board in the spaces below.

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	

3 50 POINTS
 $(8x^3y^6)(-5xy^3)$
ANSWER

13 100 POINTS
 $(2x^3y^{-5}z^4)^{-3}$
ANSWER

16 250 POINTS
 $(-4xy)^3(-2x^2)^3$
ANSWER
BACK

37 1000 POINTS
 $\frac{(-2a^2b^3)^2(18ab)}{4a^4b^3} - 13ab^4$
ANSWER
BACK

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