

Name _____

Dividing Exponents

Read the question and answer the following, and express it as a simplified expression.

- 1) Emily has $12p^4q^2$ books, and she plans to distribute them equally among $3pq$ bookshelves. Determine the number of books on each bookshelf.

$4p^3$ books

- 2) John has $15a^3b^5$ candies and wants to divide them equally among $5ab$ kids. Find the number of candies each kid will receive.

$3a^2b^4$ candies

- 3) A garden has $24m^5n^3$ flowers, and the gardener wants to plant them equally in $4mn$ rows. Determine the number of flowers.

$6m^4n^2$ flowers.

- 4) Samantha has $10x^2y^3$ apples, and she plans to distribute them equally among $2xy$ baskets. Calculate the number of apples in each basket.

$5xy^2$ apples.

- 5) Liam has $16c^6d^4$ candies, and he wants to divide them equally among $4cd^2$ students. Determine the number of candies each student will receive,

$4c^5d^2$ candies.