

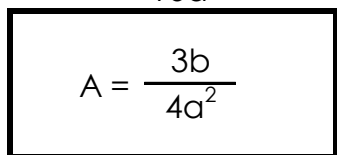
Name \_\_\_\_\_

Date \_\_\_\_\_

**Rational Expressions: Find the Missing Piece... Width, Area, or Perimeter.**

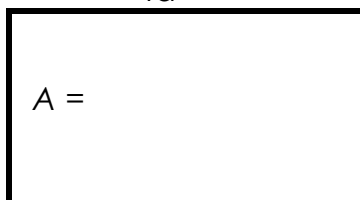
Use what you know about multiplying, dividing, and adding rational expressions to find the missing pieces.

$$L = \frac{15b^2}{16a^3}$$



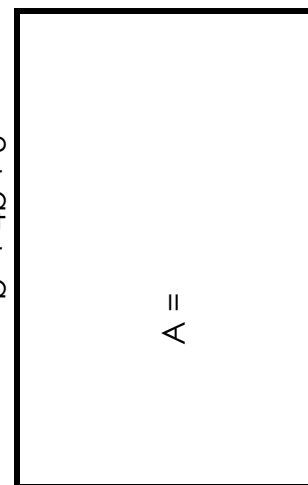
W =

$$L = \frac{3a^2b}{4a^3}$$



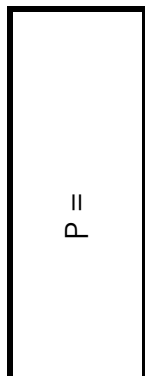
$$W = \frac{2a}{3a^3b^3}$$

$$L = \frac{b^2 + 2b - 8}{b^2 + 4b + 3}$$



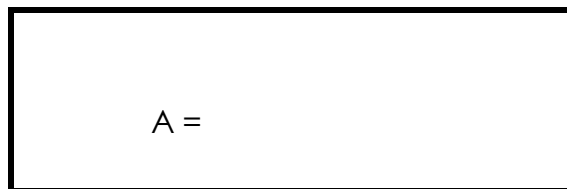
$$W = \frac{3b + 3}{b - 2}$$

$$L = 2x^2 - 31$$



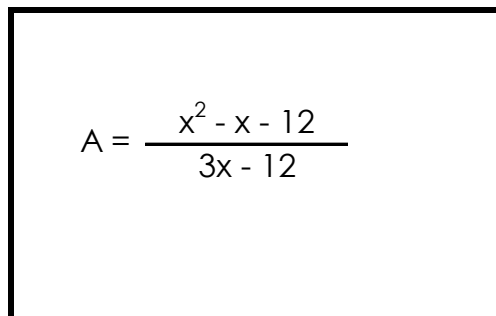
$$W = 23$$

$$W = \frac{x - 3}{x^2 - 9}$$



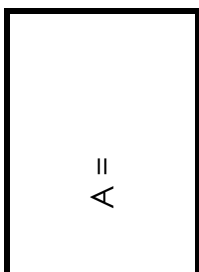
$$L = \frac{x^2 + 5x + 5}{x + 3}$$

$$L = \frac{x - 3}{3}$$



W =

$$W = \frac{x + 2}{4x - 4}$$



$$L = \frac{x^2 + 11x - 12}{3x + 6}$$

$$A = \frac{x^2 + 2x - 15}{x + 2}$$

W =

$$L = \frac{5x - 15}{x + 2}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

## Rational Expressions: Find the Missing Piece... Width, Area, or Perimeter.

Use what you know about multiplying, dividing, and adding rational expressions to find the missing pieces.

$$L = \frac{15b^2}{16a^3}$$

$$A = \frac{3b}{4a^2}$$

$$W = \frac{4a}{5b}$$

$$L = \frac{3a^2b}{4a^3}$$

$$A = \frac{1}{2a^3b^2}$$

$$W = \frac{2a}{3a^3b^3}$$

$$L = \frac{b^2 + 2b - 8}{b^2 + 4b + 3}$$

$$A = \frac{3(b+4)}{b+3}$$

$$W = \frac{3b+3}{b-2}$$

$$L = 2x^2 - 31$$

$$P = 4(x-2)(x+2)$$

$$W = 23$$

$$W = \frac{x-3}{x^2-9}$$

$$A = \frac{x+2}{x+3}$$

$$L = \frac{x^2 + 5x + 6}{x+3}$$

$$L = \frac{x-3}{3}$$

$$A = \frac{x^2 - x - 12}{3x - 12}$$

$$W = \frac{3(x+3)}{3(x-3)}$$

$$W = \frac{x+5}{5}$$

$$A = \frac{x^2 + 2x - 15}{x+2}$$

$$L = \frac{5x-15}{x+2}$$

$$W = \frac{x+2}{4x-4}$$

$$A = \frac{x+12}{12}$$

$$L = \frac{x^2 + 11x - 12}{3x+6}$$

Student Name \_\_\_\_\_

Date Received \_\_\_\_\_

## Rational Expressions RUBric

|  | 0 | 1 | 2 | 3 | 4 |
|--|---|---|---|---|---|
| 1: All lengths, areas, and perimeters were found accurately.   |   |   |   |   |   |
| 2: All answers were reduced to their simplest forms. A final answer can either be left unfactored or factored. |   |   |   |   |   |
| 3: All scrap paper is included to show all work necessary to complete each problem.                            |   |   |   |   |   |
| 4: Final work is neat and ready to be included in the student's portfolio.                                     |   |   |   |   |   |
| 5: Final work is submitted on time.  |   |   |   |   |   |

Final Grade

Explanation of grade:

The Final Grade is the sum of all parts of the assignment multiplied by 5.

- 4 Receiving a 4 means that the student completed that part of the assignment without error.
- 3 Receiving a 3 means the student completed that part of the assignment with some error.
- 2 Receiving a 2 means that the student did not complete that part of the assignment, or completed it with errors.
- 1 Receiving a 1 means that the student did not complete that part of the assignment and answers are out of context.
- 0 Receiving a 0 means that the student did not complete that part of the assignment.