## Date \_\_\_\_\_

Multiplying and Dividing Rational Expressions - Step-by-Step Lesson

a. Divide. Write your answer in simplest form.

$$\frac{5n+2}{6n-4} \div (4n-2)$$

## **Explanation**:

To divide by a fraction, multiply by its reciprocal.



$$\frac{5n+2}{6n-4} \div (4n-2)$$

 $\frac{5n+2}{6n-4} \div \frac{(4n-2)}{1}$  Rewrite the second expression as a fraction.

 $\frac{5n+2}{6n-4} \times \frac{1}{4n-2}$  To divide, multiply by the reciprocal

 $\frac{5n+2}{(6n-4)(4n-2)}$  Multiply the numerators and multiply the denominators.

The answer is  $\frac{5n+2}{(6n-4)(4n-2)}$ , which can also be written as

 $24n^2 - 28n + 8$ 



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