

NAME: \_\_\_\_\_

*P.I. A.N.5: Solve algebraic problems arising from situations that involve proportionality/direct variation*

1. In your own words, describe the cross products of a proportion. Include an example.
2. Write a problem that you can solve using the proportion  $\frac{1}{6} = \frac{n}{8}$ . Then show the solution to your problem.

Answers may vary. Sample: The cross products of a proportion of the form  $\frac{a}{3} = \frac{5}{6}$  are  $6a$  and

[1]  $3 \cdot 5 = 15$ . The cross products of a proportion are equal, so  $6a = 15$ .

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Answers may vary. Sample: A muffin recipe calls for 1 cup of sugar for 6 muffins. How many cups of

[2] sugar do you need to make 8 muffins?  $1\frac{1}{3}$  cups

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