Student Name: _____   Date: _____

Who's Correct?

Noah and Abana were asked to solve the following problem:

> Videos-R-Us records show that during a one-month period, 7 horror videos were rented for every 2 romance videos. If 2,254 romance videos were rented, how many horror videos were rented?

Noah and Abana each solved the problem, but came up with different answers. Their work is shown below. Who is correct? Justify your answer.

Noah's Work	Abana's Work

Noah's Work

$\times 1{,}127$

$$\frac{7}{2} = \frac{x}{2{,}254}$$

$\times 1{,}127$

7,889 horror rentals

Abana's Work

$$\div 3.5 \left(\frac{2}{7} = \frac{x}{2{,}254} \right) \div 3.5$$

644 horror rentals

Communicating About Mathematics

Write a different proportion that could be used to solve the problem. Why could your proportion be used to solve the problem?

_____

_____

_____

_____

_____