

NAME _____

HW # _____

Solve for the variable in each proportion.

1. $\frac{4}{3} = \frac{8}{x}$

2. $\frac{7}{5} = \frac{x}{3}$

3. $\frac{7}{b+5} = \frac{10}{5}$

4. $\frac{1}{8} = \frac{2}{d}$

5. Are the following examples a proportion? Justify using cross products.

a. $\frac{8}{14}$ and $\frac{4}{7}$

b. $\frac{0.5}{7}$ and $\frac{2}{30}$

6. Jane bought 3lbs. of apples for \$4.75 and Adam bought 4 lbs. of apples for \$5.50. Does this represent a proportional relationship? Show work to justify.

*Spiral Review...*7. Which expression is equivalent to $4.8 + 2.2w - 1.4w + 2.4$?

A. $0.4(6 + 2w)$

B. $0.8(9 + w)$

C. $1.6(3 + 2w)$

D. $3.6(2 + w)$

8. Simplify the expression $4x - 3(x - 2y) + \frac{1}{2}(6x - 8y)$