Mathematics
Topic: Ratio and Proportion
Name:

<u>Instructions:</u> Cross multiply to check if these ratios are proportional (equal).
The first one has been done for you.

1. $\dfrac{12}{7} = \dfrac{36}{21}$

12 x 21 = 7 x 36

252 = 252

proportional/equal

2. $\dfrac{3}{11} = \dfrac{17}{6}$

3. $\dfrac{4}{10} = \dfrac{8}{20}$

4. $\dfrac{10}{24} = \dfrac{25}{60}$

5. $\dfrac{5}{15} = \dfrac{3}{9}$

<u>Instruction:</u> Solve to find the value of the variable (letter) in each ratio(fraction.
The first one has been done for you.

6. $\dfrac{2}{5} = \dfrac{w}{65}$

65 x 2 = 5 w

130 = 5w

130 ÷ 5 = 5w ÷ 5

26 = w

w = 26

7. $\dfrac{2}{7} = \dfrac{c}{28}$

8. $\dfrac{k}{6} = \dfrac{15}{18}$

9. $\dfrac{4}{5} = \dfrac{12}{a}$

10. A shop produces 39 cakes in two weeks. How long will it take the shop to produce 429 cakes?

39 : 2 = 429 : m