

Practice Makes Perfect



Use *cross-products* to solve each *proportion* for the indicated variable. See if you can recognize the distributive property as you work through some of these problems. Show all of your work.

1. $\frac{x}{3} = \frac{5}{9}$

$$(x)(9) = (3)(5)$$

2. $\frac{y}{7} = \frac{3}{14}$

3. $\frac{2}{w+2} = \frac{2}{2w+1}$

$$2(2w + 1) = 2(w + 2)$$

4. $\frac{2n+1}{2} = \frac{n+2}{4}$

5. $\frac{b+2}{3} = \frac{3b+1}{3}$

6. $\frac{3}{2z} = \frac{5}{z+3}$

7. $\frac{d+4}{3} = \frac{d+13}{6}$

8. $\frac{3}{m+1} = \frac{7}{2m+3}$

9. $\frac{n+12}{4} = \frac{n}{16}$

10. $\frac{a+2}{5} = \frac{a-4}{7}$

Scrambled answers: -17, -16, 2, 0, $\frac{1}{2}$, $\frac{9}{7}$, 5, $\frac{3}{2}$, $\frac{5}{3}$, 1