

Solve each proportion.

1. $\frac{9}{n} = \frac{6}{4}$

$6n = (9)(4)$

$6n = 36$

$n = 6$

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

$x = 15$

3. $\frac{3}{2} = \frac{6}{n}$

$n = 4$

4. $\frac{x}{6} = \frac{2}{4}$

$x = \frac{12}{4}$

$x = 3$

5. $\frac{8}{2} = \frac{m}{10}$

$m = 40$

6. $\frac{x}{7} = \frac{10}{4}$

$x = \frac{70}{4}$

$x = 17.5$

7. $\frac{6}{2} = \frac{d}{5}$

$2d = (6)(5)$

$2d = 30$

$d = 15$

8. $\frac{x+4}{3} = \frac{10}{6}$

$(10)(3) = 6(x+4)$

$30 = 6x + 24$

$6 = 6x$

$1 = x$

9. $\frac{2}{6} = \frac{4}{b+3}$

$(4)(6) = 2(b+3)$

$24 = 2b + 6$

$18 = 2b$

$b = 9$

10. $\frac{10}{f-6} = \frac{3}{6}$

$3(f-6) = (10)(6)$

$3f - 18 = 60$

$3f = 78$

$f = 26$

11. $\frac{5}{10} = \frac{4}{h+5}$

$(10)(4) = 5(h+5)$

$40 = 5h + 25$

$15 = 5h$

$3 = h$

$3(x+1) = (5)(6)$

$3x + 3 = 30$

$3x = 27$

$x = 9$

12. $\frac{5}{x+1} = \frac{3}{6}$

$(10)(2) = 4(a-4)$

$20 = 4a - 16$

$36 = 4a$

$9 = a$

14. $\frac{8}{2} = \frac{x+6}{9}$

$2(x+6) = (8)(9)$

$2x + 12 = 72$

$2x = 60$

$x = 30$

15. $\frac{3}{n+4} = \frac{6}{8}$

$(3)(8) = 6(n+4)$

$24 = 6n + 24$

$0 = 6n$

$0 = n$

16. $\frac{5}{2} = \frac{10}{x}$

$x = 4$