

## Practice: Solve Equations Involving Fractions

1. Solve.

a)  $\frac{c}{2} = 7$

b)  $\frac{n}{-3} = 4$

c)  $\frac{w}{-3} = -5$

d)  $\frac{h}{6} = -3$

2. Find each root.

a)  $2 = \frac{1}{8}(s + 7)$

b)  $\frac{v+8}{5} = 4$

c)  $\frac{3}{4}(r - 1) = 6$

d)  $\frac{u-8}{2} = -1$

e)  $-\frac{1}{4}(z - 5) = -1$

f)  $\frac{2(e+5)}{3} = -2$

3. Find each root.

a)  $\frac{b+3}{4} = \frac{b-1}{2}$

b)  $\frac{d-1}{6} = \frac{d-3}{3}$

c)  $\frac{1}{6}(z - 4) = \frac{1}{2}(z - 2)$

d)  $\frac{x+4}{3} = \frac{x+6}{5}$

e)  $\frac{3n+2}{8} = \frac{3n-2}{4}$

f)  $\frac{1}{9}(2y - 1) = \frac{1}{3}(y + 1)$

4. Solve and check.

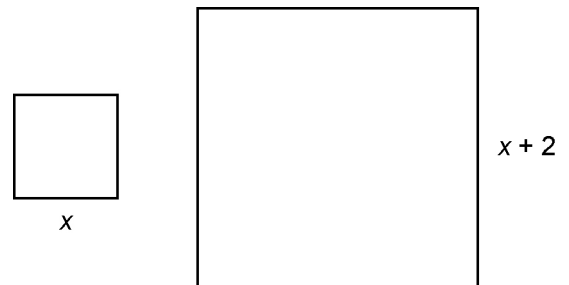
a)  $k - 3 = \frac{k+3}{-5}$

b)  $\frac{2z-3}{5} = 3$

c)  $\frac{1}{3}(9 + g) = g + 1$

d)  $\frac{h+2}{3} = \frac{3h-2}{5}$

5. The perimeter of the small square is one-third the perimeter of the large square. What are the side lengths of the squares?



6. The height of a triangle is 2 cm less than its width. The area of the triangle is  $24 \text{ cm}^2$ . What are the measures of the base and height?