

For each proportion, solve for the variable. Answer as a reduced fraction or mixed number when necessary.

1.
$$\frac{8}{n+6} = \frac{4}{11}$$

2.
$$\frac{9}{c+5} = \frac{21}{84}$$

3.
$$\frac{5}{9} = \frac{w+4}{-9}$$

4.
$$\frac{8}{12} = \frac{y+12}{9}$$

5.
$$\frac{c-4}{7} = \frac{-5}{13}$$

6.
$$\frac{-12}{8} = \frac{7}{x-6}$$

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

8.
$$\frac{25}{-40} = \frac{-x+10}{-7}$$