

Name: \_\_\_\_\_

## Solving Proportions - Algebraic Expressions

L2S2

Solve each proportion.

1)  $\frac{6}{n-6} = \frac{10}{n}$

2)  $\frac{7}{8} = \frac{3+f}{f+6}$

3)  $\frac{9}{10} = \frac{z+3}{z}$

$\frac{k+5}{7}$

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5)  $\frac{a+1}{a-3} = \frac{5}{3}$

7)  $\frac{2p}{5p-6} = \frac{2}{7}$

8)  $\frac{20+3y}{50} = \frac{y}{10}$

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## Answer key

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Solve each proportion.

1)  $\frac{6}{n-6} = \frac{10}{n}$

2)  $\frac{7}{8} = \frac{3+f}{f+6}$

3)  $\frac{9}{10} = \frac{z+3}{z}$

$f = 18$   
 $\frac{k+5}{7}$

5)  $\frac{a+1}{a-3} = \frac{5}{3}$

$k = 5$

7)  $\frac{2p}{5p-6} = \frac{2}{7}$

$r = 2$

8)  $\frac{20+3y}{50} = \frac{y}{10}$

$p = -3$

$y = 10$

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