

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

## Solving Proportions - Algebraic Expressions

L1S1

Solve each proportion.

1)  $\frac{24}{v+1} = \frac{4}{8}$

2)  $\frac{15}{2g-7} = \frac{3}{5}$

3)  $\frac{5m-3}{63} = \frac{9}{21}$

4)  $\frac{12}{3} = \frac{p-1}{10}$

5)  $\frac{2}{5} = \frac{30}{3t+9}$

6)  $\frac{28+4b}{8} = \frac{1}{2}$

7)  $\frac{4}{11} = \frac{x+58}{77}$

8)  $\frac{45}{35} = \frac{9}{7a-7}$

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## Answer key

### Solving Proportions - Algebraic Expressions

L1S1

Solve each proportion.

1)  $\frac{24}{v+1} = \frac{4}{8}$

**$v = 47$**

2)  $\frac{15}{2g-7} = \frac{3}{5}$

**$g = 16$**

3)  $\frac{5m-3}{63} = \frac{9}{21}$

**$m = 6$**

4)  $\frac{12}{3} = \frac{p-1}{10}$

**$p = 41$**

5)  $\frac{2}{5} = \frac{30}{3t+9}$

**$t = 22$**

6)  $\frac{28+4b}{8} = \frac{1}{2}$

**$b = -6$**

7)  $\frac{4}{11} = \frac{x+58}{77}$

**$x = -30$**

8)  $\frac{45}{35} = \frac{9}{7a-7}$

**$a = 2$**