

Solving Proportions

Cross multiply, solve, and check excluded denominator values in the original equation. Give the exact answer as a simplified fraction.

1. Solve for x.

$$\frac{26}{x+10} = \frac{1}{4}$$

Cross multiply and solve:

2. Solve for z.

$$\frac{8}{z-22} = \frac{11}{z-2}$$

Cross multiply and solve:

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3. Solve for c.

$$\frac{c}{3} = \frac{c-28}{4}$$

Cross multiply and solve:

4. Solve for k.

$$\frac{29}{8} = \frac{5}{k}$$

Cross multiply and solve:

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5. Solve for r.

$$\frac{7}{9} = \frac{6r-19}{19}$$

Cross multiply and solve:

6. Solve for y.

$$\frac{20}{y+5} = \frac{1}{3}$$

Cross multiply and solve:

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7. Solve for t.

$$\frac{5}{8} = \frac{4t-13}{13}$$

Cross multiply and solve:

8. Solve for m.

$$\frac{23}{6} = \frac{7}{m}$$

Cross multiply and solve:

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9. Solve for v.

$$\frac{v}{5} = \frac{v-18}{6}$$

Cross multiply and solve:

10. Solve for w.

$$\frac{9}{w-10} = \frac{10}{w+2}$$

Cross multiply and solve:
